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NEWS 3 Apr 09 BEILSTEIN Reload and Implementation of a New

Subject Area

NEWS 4 Apr 09 ZDB will be removed from STN

NEWS 5 Apr 19 US Patent Applications available in IICDB,

IIPAT, and IIPUDB

NEWS 6 Apr 22 Records from IP.com available in CAPLUS,

CAPLUS, and ZCAPLUS

NEWS 7 Apr 22 BIOSIS Gene Names now available in

TOXCENTRE

NEWS 8 Apr 22 Federal Research in Progress (FDRIP) now

available

NEWS 9 Jun 03 New e-mail delivery for search results now available

NEWS 10 Jun 10 MEDLINE: Reload

NEWS 11 Jun 10 PCTDB has been reloaded

NEWS 12 Jul 02 FORGLI no longer contains STANDARDS file

segment

NEWS 13 Jul 22 USAN to be reloaded July 28, 2002;

saved answer sets no longer valid

NEWS 14 Jul 29 Enhanced polymer searching in REGISTRY

NEWS 15 Jul 30 NE FIRST to be removed from STN

NEWS 16 Aug 08 CANCERIT reload

NEWS 17 Aug 08 PHARMAMarket (enter PHARMAML) - new on

STN

NEWS 18 Aug 08 NTIS has been re-loaded and enhanced

NEWS 19 Aug 19 Aquatic Toxicity Information Retrieval (ACQUIRE)

now available on STN

NEWS 20 Aug 19 IIPAT, IIPUDB, and IIPUDB have been reloaded

NEWS 21 Aug 19 The MEDLINE file segment of TOXCENTRE has

been reloaded

NEWS 22 Aug 26 Sequence searching in REGISTRY enhanced

NEWS 23 Sep 03 JAPOL has been reloaded and enhanced

NEWS 24 Sep 16 Experimental properties added to the REGISTRY

file

NEWS 25 Sep 16 Indexing added to some pre-1967 records in

CA/CAPLUS

NEWS 26 Sep 16 CA Serton Thesaurus available in CAPLUS and

CA

NEWS 27 Oct 01 CASREACT Enriched with Reactions from 1907 to

1985

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V6.0dJP.

AND CURRENT DISCOVER FILE IS DATED 05

FEBRUARY 2002

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FILE MEDLINE ENTERED AT 15:05:47 ON 02 OCT 2002

FILE BIOSIS ENTERED AT 15:05:47 ON 02 OCT 2002
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1 - 8 microcell mediated chromosome transfer
14 - 482 MICROCELL-MEDIATED CHROMOSOME TRANSFER

1 - 8 electroporat?

12 - 11852 ELECTROPORAT?

1 - 8 H and I2

13 - 211 AND 12

1 - dup rem 13
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14 - 2 DUP REM 13 (0 DUPLICATES REMOVED)

1 - dito so 1-2

14 - ANSWER 1 OF 2 CAPLUS COPYRIGHT 2002 ACS
11 - Detection and interpretation of mutations using animal cell hosts to express human genes present on a single copy of a human chromosome

SO - PCT Int Appl., 149 pp.

CODEN: PIXND2

14 - ANSWER 2 OF 2 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
11 - Culture of Specialized Cells Series: DNA transfer to cultured cells, Vol. 1, [Editor], Freshney, R. I. [Editor], (1998) pp. xvi+296p.
SO - David, K. [Editor]; Freshney, R. I. [Editor]. (1998) pp. xvi+296p.
Culture of Specialized Cells Series: DNA transfer to cultured cells, Wiley-Liss, Inc. 605 Third Avenue, New York, New York 10158-0012 USA.
ISBN: 0-471-16522-7

1 - dlb abt 1-2

14 - ANSWER 1 OF 2 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER 2002276207 CAPLUS
DOCUMENT NUMBER 136289911
TITLE Detection and interpretation of mutations using animal cell hosts to express human genes present on a single copy of a human chromosome
INVENTOR(S) Beaudet, Arthur; Bodamer, Olaf; Killary, Ann; Lowell, Mercedes

PATENT ASSIGNEE(S) : Board of Regents, the University of Texas
System, USA
SOURCE : PCT Int. Appl. 14/132
CODE: PNXD2
DOCUMENT TYPE : Patent
LANGUAGE : English
FAMILY ACC NUM COLN 1
PATENT INFORMATION

PATENT NO	GRANT DATE	APPLICATION NO.	DATE
WO 2002/29167	XZ 20020411	WO 2001/4 S34965	0001002
TA, CH, CN	CO, CR, CL, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,	GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LT, TR,	ES, ET, EU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NC, NZ, PH, PI
UG	PL, RO, RU, SD, SI, SG, SE, SK, SI, TJ, TM, TR, TZ, UG, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, TZ, UG, ZW, A	RW, GH, GM, KE, LS, MW, MZ, SD, SI, SZ, TZ, UG, ZW, A	
BE, CH, CN	DE, DK, ES, EU, FR, GB, GE, IE, IT, LU, MC, NL, PT, SE, SI	BE, CT, CG, CL, CM, GA, GN, GQ, GW, ML, MR, NE, SN,	
TG	US 2002/17067	US 2001-969861	2001-03-06
	XI 20020926	US 2000-227471P	P 2000-01-01

PRIORITY: APPROVED
AB - The present invention relates to a method for detection and interpretation of loss-of-function or gain-of-function mutations for test gene(s) of interest. The genes of interest include those assoc'd. with inherited genetic disorders. The method involves testing for gene function by transforming single copies of individual human chromosomes into a suitable host cell. Human cells are obtained from peripheral blood. Transfer

is preferably by **microcell-mediated chromosome transfer**. Transfector is screened for anal. of expression of a marker gene closely linked to the gene of interest. Guidelines for the selection of host cells and marker genes that can be used to detect transfer are described. The preferred markers are cell surface proteins such as ICAM-1 that can be easily assayed or used for fluorescence activated cell sorting. The method is demonstrated by detection of a mutation in the human LDL receptor gene on chromosome 19 using CHO cells as a host.

14 ANSWER 2 OF 2 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC
ACCESSION NUMBER 1999:118717 BIOSIS DOCUMENT NUMBER PREV19990118717
TITLE Culture of Specified Cells Series: DNA transfer to cultured cells

AL THOFEYI Rayid, Katya (1) [Editor]; Freibinet, R. J. (1); **CORTOPASSI SOURCE** (1) Dep. Biochem., Boston Univ. Med. Ctr., Boston, MA USA; **EDITION** 1st (1998); **PUBLISHER** Lippincott-Raven (1); **EDITOR**, Freibinet, R. J. [Editor]; (1998)

SOTFCI. David, K. J. (1971). *Cancer Research*, 31, pp. vii-296p. Culture of Specialized Cells Series. DNA transfer to cultured cells. Academic, 3rd Avenue, New York.

New York 10158-0012 USA
ISBN: 0-471-16572-7
Doc. MUSI 15 PHL Book (MANUAL)

DOCUMENTATION
LANGUAGE English

MB This book is part of a series of detailed procedural reference manuals on the topic of the culture of specialized cells. The 14 individually authored chapters contain practices and protocols for such procedures as **electroporation** of DNA into cultured cell lines, calcium phosphate transfection, and trapping human senescence genes using **microcell-mediated chromosome transfer**. Each chapter contains an introduction, a list of materials, stepwise instructions and references. The volume includes a list of suppliers. This methodology text, which is indexed and illustrated with tables and figures, should be a valuable reference tool for those interested in the genetic modification of human cells for transplantation into genetically deficient hosts, fundamental research in molecular genetics, regulation of development in normal and transformed cells, and the generation of biopharmaceuticals.

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FILE 'HOME' ENTERED AT 15:05:39 ON 02 OCT 2002
FILE 'MEDLINE_BIOSIS_CAPIUS' ENTERED AT 15:05:47 ON
02 OCT 2002
11 482 S MICROCELL-MEDIATED CHROMOSOME
TRANSFER
12 11852 S ELECTROPORATE?
13 2514 AND 12
14 2 DUP REM 13 (0 DUPLICATES REMOVED)

--> s electromtransfect?
15 17? ELECTROTRANSFECT?

--> s transfet and electric?
16 26 TRANSFECT AND ELECTRIC?

--> s transfet and pulse
17 2095 TRANSFECT? AND PULSE

--> s chromosomal
18 552n69 CHROMOSOME

--> s 17 and 18
19 41 17 AND 18

--> dup rem 19
PROCESSING COMPLETED FOR 19
130 23 DUP REM 19 (18 DUPLICATES REMOVED)

ANSWER 1 OF 23 MEDLINE DUPLICATE
Thioredoxin reductase is essential for the survival of Plasmodium falciparum erythrocytic stages. JOURNAL OF BIOLOGICAL CHEMISTRY, (2002 Jul 19) 277(29):25970-5.
Journal code: 2985121R ISSN: 0021-9258.

110 ANSWER 2 OF 25 MEDIUM DEPICTION 2
11 SYT-SSX is critical for cyclin D1 expression in synovial sarcoma cells; a gain of function of the t(X;18)(p11.2;q11.2) translocation.
SO CANCER RESEARCH, (2002 Jul 1) 62 (13) 3861-7.
Journal code: 2984765R ISSN: 0008-5472.

110 ANSWER 3 OF 23 MEDLINE DUPLICATE 3
II-Association of sodium channel gamma-subunit promoter variant
with blood pressure.
SO: HYPERTENSION, 2001 Jul;38(1):86-9.

Journal code: 7906255 ISSN: 1524-4561

I10 ANSWER 4 OF 23 CAPTUS COPYRIGHT 2002 ACS

II Studies on the interaction between actinophage phi C31 and Streptomyces nanchangensis

SO Huib Daoye Xuebao, Ziran Kexueban (2001) 23(1), 82-86
CODEN: BDZKEM ISSN: 1000-2178

DUPICATE 4

I10 ANSWER 5 OF 23 MEDIUM

II Circular YAC vectors containing s for mammalian origin sequences are

maintained under selection as HeLa episomes

SO JOURNAL OF CELLULAR BIOCHEMISTRY (2000 Jan) 76 (4)

674-85

Journal code: 820576X ISSN: 0730-232Z

I10 ANSWER 6 OF 23 CAPTUS COPYRIGHT 2002 ACS

II Transfection of muscle cell's using low voltage electrical pulses

SO PCT Int. Appl. 97 pp.

CODEN: PIXND2

I10 ANSWER 7 OF 23 CAPTUS COPYRIGHT 2002 ACS

II Transfection of cells of multicellular organisms in vivo using low-voltage electrical pulses

SO PCT Int. Appl. 74 pp.

CODEN: PIXND2

I10 ANSWER 8 OF 23 MEDLINE

II Biosynthesis and intracellular targeting of the CTN3 protein defective in Batten disease.

SO HUMAN MOLECULAR GENETICS (1998 Jan) 7 (1) 85-90

Journal code: 9208958 ISSN: 0964-6006

I10 ANSWER 9 OF 23 MEDLINE

II Mutation of a conserved cysteine in the X-linked cone opsin causes color vision deficiencies by disrupting protein folding and stability.

SO INVESTIGATIVE OPHTHALMOLOGY AND VISUAL SCIENCE (1997 May) 38 (6) 1074-81

Journal code: 7703701 ISSN: 0146-6544

I10 ANSWER 10 OF 23 MEDLINE

II Biochemical and genetic characterization of multiple splice variants of the Pt3 ligand.

SO BLOOD (1996 Nov 1) 88 (9) 3571-82

Journal code: 7603509 ISSN: 0006-4971

I10 ANSWER 11 OF 23 MEDLINE

II A new and efficient method for gene transfer into mouse ES cells using metaphase chromosomes by electroporation.

SO BIOSCIENCE, BIOTECHNOLOGY, AND BIOCHEMISTRY (1996 Nov) 60 (11) 1879-81

Journal code: 9205717 ISSN: 0916-8451

I10 ANSWER 12 OF 23 MEDLINE

II Molecular cloning and characterization of murine interleukin-11.

SO EXPERIMENTAL HEMATOLOGY (1996 Oct) 24 (12) 1369-76

Journal code: 0402312 ISSN: 0881-472X

DUPICATE 5

I10 ANSWER 13 OF 23 MEDLINE

II Assembly and localization of the U1-specific snRNP C protein in the amphibian oocyte.

SO JOURNAL OF CELL BIOLOGY (1992 Dec) 119 (5) 1037-46

Journal code: 0875356 ISSN: 0021-9525

I10 ANSWER 14 OF 23 MEDLINE

II Molecular complementation of a collagen mutation in mammalian cells using

yeast artificial chromosomes

SO EMBO JOURNAL (1992 Feb) 11 (2) 417-22

Journal code: 3208664 ISSN: 0261-4189

I10 ANSWER 15 OF 23 MEDLINE

II Characterization of an insulin receptor mutant lacking the subunit processing site.

SO JOURNAL OF BIOLOGICAL CHEMISTRY (1990 May 25) 265

(15) 8463-9

Journal code: 2958121E ISSN: 0021-9258

DUPICATE 8

I10 ANSWER 16 OF 23 MEDLINE

II Autonomously replicating cDNA fragment containing the chromosomal replication origin of the human c-myc gene.

SO NUCLEIC ACIDS RESEARCH (1990 Mar 11) 18 (5) 1233-42

Journal code: 0411011 ISSN: 0305-1048

Journal code: 2958121E ISSN: 0021-9258

DUPICATE 9

I10 ANSWER 17 OF 23 MEDLINE

II Analysis of a soluble mutant des-methionine interleukin-2 receptor alpha

chain (Tac protein) produced by transfected mammalian cells.

SO EUROPEAN JOURNAL OF BIOCHEMISTRY (1990 May 20)

189 (3) 657-65

Journal code: 0107601 ISSN: 0014-2956

Journal code: 2958121E ISSN: 0021-9258

DUPICATE 10

I10 ANSWER 18 OF 23 MEDLINE

II Analysis of the translocation of MET transfected cell lines reveals that MET activation is accompanied by an interstitial insertion

SO HUMAN GENETICS (1990 Feb) 84 (3) 274-8

Journal code: 7613873 ISSN: 0340-6717

Journal code: 2958121E ISSN: 0021-9258

DUPICATE 11

I10 ANSWER 19 OF 23 MEDLINE

II Intracellular transport of rat serum albumin is altered by a genetically

engineered deletion of the propeptide.

SO JOURNAL OF BIOLOGICAL CHEMISTRY (1989 Dec 15) 264

(35) 20843-6

Journal code: 2958121R ISSN: 0021-9258

Journal code: 2958121R ISSN: 0021-9258

DUPICATE 12

I10 ANSWER 20 OF 23 MEDLINE

II Selective secretion of alternatively spliced fibronectin variants.

SO JOURNAL OF CELL BIOLOGY (1989 Dec) 109 (6 Pt 2) 3445-

53

Journal code: 0275356 ISSN: 0021-9525

Journal code: 2958121R ISSN: 0021-9258

DUPICATE 13

I10 ANSWER 21 OF 23 MEDLINE

II A frameshift mutation results in a truncated alpha 1-antitrypsin that is retained within the rough endoplasmic reticulum.

SO JOURNAL OF BIOLOGICAL CHEMISTRY (1988 May 25) 263

(15) 17320-5

Journal code: 2958121R ISSN: 0021-9258

Journal code: 2958121R ISSN: 0021-9258

DUPICATE 14

I10 ANSWER 22 OF 23 MEDLINE

II An amino-terminal deletion mutation of pseudorabies virus glycoprotein

gII affects protein localization and RNA accumulation.

SO JOURNAL OF VIROLOGY (1988 Oct) 62 (10) 3565-73

Journal code: 013724 ISSN: 0022-538X

Journal code: 013724 ISSN: 0022-538X

DUPICATE 15

I10 ANSWER 23 OF 23 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.

II AN UNLINKED GENE AFFECTING MOUSE CELL DNA SYNTHESIS ALSO AFFECTS PRODUCTION OF INTEGRATED LINEAR AND SUPER COILED DNA OF MURINE LEUKEMIA VIRUS

SO MOLECULAR CELL BIOLOGY (1984) 4 (1), 151-159

CODEN: MCBD4 ISSN: 0270-7306

Journal code: 013724 ISSN: 0022-538X

110 ANSWER 14 OF 23 MEDLINE DUPLICATE 7

ACCESSION NUMBER: 92164627 MEDLINE

DOCUMENT NUMBER: 92164627 PubMed ID: 1537326

TITLE: Molecular complementation of a collagen mutation in
mammalian cells using yeast artificial **chromosomes**

AUTHOR: Straus, W.M.; Jaenisch, R.
CORPORATE SOURCE: Whitehead Institute for Biomedical Research, Massachussets

Institute of Technology, Cambridge 02142,
CONTRACT NUMBER: 5132 GM13756-02 (NICMS)
5R01 CA44739-05 (NCI)

BIOID: 98-01 (NIHGR)

SOURCE: EMBOD JOURNAL, (1992 Feb) 11 (2) 417-22.
Journal code: 8208664 ISSN: 0261-4189.

PUB. COUNTRY: ENGLAND; United Kingdom

DOCUMENT TYPE: Journal Article; JOURNAL ARTICLE

LANGUAGE: English

FILE SEGMENT: Priority Journals

ENTRY MONTH: 199203

ENTRY DATE: Entered SIN: 19920417

Last Updated on SIN: 19930206

Entered Medline: 19920331

AB: The cloning of large contiguous segments of mammalian DNA in Saccharomyces cerevisiae has become possible with the advent of Yeast Artificial Chromosomes (YACs). We are interested in extending the technique of genetic complementation analysis to the molecular level through the introduction of YACs into mammalian cells and the mammalian germ-line. We report the successful introduction of homogeneous DNA derived from a 150-kbp YAC spanning the murine Col(Ia1) locus into murine fibroblasts carrying a mutation at this locus. The YAC DNA was fractionated by pulse field electrophoresis, condensed with polyamines, and introduced into mutant fibroblasts via DNA-lipid nanocelles. The DNA was integrated as a stable intact unit in 10% of the transfected clones conferring collagen RNA expression to the mutant cells.

110 ANSWER 11 OF 23 MEDLINE DUPLICATE 5

ACCESSION NUMBER: 97141609 MEDLINE

DOCUMENT NUMBER: 97141609 PubMed ID: 8987867

TITLE: A new and efficient method for gene transfer into mouse EM2A cells using metaphase **chromosomes** by electroporation.

AUTHOR: Obse M; Tsuchida K; Tomita H; Taketo A; Kimoto H; Kisoike H

CORPORATE SOURCE: Department of Applied Physics and Chemistry, Faculty of Engineering, Fukui University of Technology, Japan

SOURCE: BIOSCIENCE, BIOTECHNOLOGY, AND BIOCHEMISTRY, (1996 Nov) 60 (11) 1879-81.

Journal code: 9205717 ISSN: 0916-8451.

PUB. COUNTRY: Japan

DOCUMENT TYPE: Journal Article; JOURNAL ARTICLE

LANGUAGE: English

FILE SEGMENT: Biotechnology

ENTRY MONTH: 199702

ENTRY DATE: Entered SIN: 19970306

Last Updated on SIN: 19970306

Entered Medline: 19970224

AB: We introduced **chromosome**-mediated genes into mouse thymidine kinase-deficient EM3A (EM3At^{-/-}) cells, by electroporation. The effects of some parameters on the electric shock-mediated **transfection** of EM3At^{-/-} cells were investigated. Gene transfer of mouse L929 metaphase DNA into EM3At^{-/-} resulted in a maximum frequency

of $(3.0 \pm 1.0) \times 10^{-5}$ at a cell density of 2.0×10^8 ml and chromosomal dosage of 5.0×10^7 cell equivalents/ml in a buffer containing 0.25 M mannitol, 0.5 mM MgCl₂, 0.1 mM CaCl₂, and 1 mM Tris-HCl.

At the highest yield of the transformants was obtained at an electric field strength of 1 kV/cm and a capacitance of 35 microF, with a single exponentially decaying pulse at 0 degrees C was optimal for post-shock incubation after electroporation. The tk gene was detected in the transformants by *in situ* hybridization analysis.

110 ANSWER 7 OF 23 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 199953426 CAPLUS

DOCUMENT NUMBER: 130106017

TITLE: Transfection of cells of multicellular organisms *in vivo* using low-voltage electrical pulses

INVENTOR(S): Bureau, Michel; Mir, Luis; Sherman, Daniel
PATENT ASSIGNEE(S): Rhone-Poulenc Rorer S.A., Fr., Institut Gustave Roussy; Centre National De La Recherche Scientifique

SOURCE: Pt. I Int. Appl., 74 pp.
CODEN: PIXND2

DOCUMENT TYPE: Patent

LANGUAGE: French

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE

WO 9901157 AI 19990114 WO 1998-FR1399 19980630

W: AL, AU, BA, BB, BG, BR, CA, CN, CU, CZ, DE, GE, GW,
HU, ID, IL, IS, JP, KR, LT, FR, IT, LV, MG, ME, MN, MX, NO, NZ,
PL, RO,

SG, SI, SE, SU, TR, UA, US, UZ, VN, YU, AM, AZ, BY,
KG, EZ,

MD, RU, TJ, TM
RW, GH, GM, EL, IS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY,
DE, DK, ES,

FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BE, BJ, CE, CG,

CL: CM GA GN ML MR NL SN TD TG

EP 2765241 AI 19981231 EP 1997-8232 19970630

EP 2765241 B1 20010504

AU 9884446 AI 19990125 AU 1998-84446 19980630

EP 991425 AI 20000412 EP 1998-935066 19980630

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, LU, NL, SE,

PL, SI, FI

BR 9-10372 A 20000905 BR 1998-10372 19980630

JP 2002057984 T2 20020312 JP 1999-506529 19980630

NO 9906541 A 20000217 NO 1999-6541 19991229

US 2002012914 A1 20020131 US 2000-446690 20000202

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, LU, NL, SE,

PRIORITY APPN INFO: EP 1997-8232 A 19971201

US 1997-67487 P 19971201

WO 1998-FR1399 W 19980630

AB: Nucleic acids are introduced into cells of multicellular organisms

in vivo by using elec. **pulses** of 1-600 V/cm. The method was demonstrated using a no. of different tissues (normal and cancerous).

Effects of variation of voltage, **pulse** frequency, duration, etc. on **transfection** were studied.

REFERENCE COUNT: 5 THERE ARE 5 CITED

REFERENCES AVAILABLE FOR THIS

RECORD: ALL CITATIONS AVAILABLE IN THE

REFORMAT

110 ANSWER 6 OF 23 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 199958892 CAPLUS

DOCUMENT NUMBER: 130106020

TITLE: Transfection of muscle cells using

low-voltage electrical pulses
INVENTOR(S): Bureau, Michel, Mit, Hans, Scherman, Daniel
PATENT ASSIGNEE(S): Rhone-Poulenc Rorer S.A., Fr., Institut Gustave Roussey Centre National De La Recherche Scientifique
SOURCE: PCT Int. Appl. 97 pp.
CODEN: PNXD2
DOCUMENT TYPE: Patent
LANGUAGE: French
FAMILY ACCUM. CNT: 2
PATENT INFORMATION

PATENT NO.	KIND DATE	APPLICATION NO. DATE
WO 9901158	A1 19980114	WO 1998-1R1400 19980630
W-AI, A1, BA, BB, BG, BR, CA, CN, CL, CZ, DE, GL, GW, HU, ID, IL, IS, JP, KR, PE, PT, TR, TT, LV, MG, MK, MN, MX, NO, NZ, PL, RO, SG, SI, SK, SE, TR, TT, UA, US, UZ, VN, YU, AM, AZ, BY, KG, EZ,		
MD, RU, TT, TM, RW, GE, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PL, SE, BE, BJ, CH, CG, CL		
CM, GA, GN, ML, MR, NE, SN, TD, TG, FR 2765242	A1 19981231	FR 1997-8237 19970630
FR 2765242	BI 20000504	
AU 9884447	A1 19990125	AU 1998-84447 19980630
EP 991426	A1 20000412	EP 1998-935067 19980630
R-AE, BE, CH, DE, DK, ES, FR, GB, GR, TT, LU, NL, SE, PT, BE,		
SL, TT		
BR 9810369	A 20000905	BR 1998-10269 19980630
JP 2002507985	I2 20020312	JP 1999-500630 19991229
NO 99006542	A 20000217	NO 1999-6542 19991229
PRIORITY APPLN. INFO:		FR 1997-8237 A 19970630
		US 1997-67488P P 19971201
		WO 1998-EP1400 W 19980630

AB: Nucleic acids are introduced into cells of multicellular organisms in vivo

by using elec. pulses of 1-800 V/cm. The method was demonstrated using a no. of different muscle's. Effects of variation of voltage, pulse frequency, duration, etc. on transfection were studied.

REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE REFORMAT

140 ANSWER 5 OF 23 MEDLINE DUPLICATE 4
ACCESSION NUMBER: 2000120825 MEDLINE
DOCUMENT NUMBER: 20120825 PubMed ID: 10653986
TITLE: Circular YAC vectors containing short mammalian origin sequences are maintained under selection as HeLa episomes
AUTHOR: Nielsen, J O; Cossois N H; Zannis-Hadjopoulos M;
Price G B
CORPORATE SOURCE: Department of Pathology, University of British Columbia,
Vancouver, British Columbia V6T 1Z3, Canada
SOURCE: JOURNAL OF CELLULAR BIOCHEMISTRY, (2000) Jan 76 (4):674-85
Journal code: 820576 ISSN: 0730-2312
PUB COUNTRY: United States
DOCUMENT TYPE: Journal Article; JOURNAL ARTICLE
LNGL AGLE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 200003
ENTRY DATE: Entered SIN: 20000320
Last Updated on SIN: 20000320
Entered Medline: 20000309

AB: pYACneo, a 15.8-kb plasmid, contains a bacterial origin, G418-resistance gene, and yeast ARS, CEN, and HU elements. Three mammalian origins have been cloned into this circular vector, 343, a 448-bp chromosomal element from a transcribed region of human chromosome 6q, X24, a 4.3-kb element containing the hamster DHFR origin of bidirectional replication (ribeta), and S3, a 1.1-kb human anti-eructiform purified autonomously replicating sequence. The resulting constructs have been transfected into HeLa cells, and G418-resistant subcultures were isolated. The frequency of G418-resistant transformation was 1.7-8.7 times higher with origin-containing YACneo than with vector alone. After 45 generations under G418 selection, the presence of episomal versus integrated constructs was assessed by fluctuation assay and by PCR. Supercopied, circular, and linear genomic cellular DNAs separated on ethidium bromide cesium chloride gradients. In stable G418-resistant subcultures transfected with vector alone or with linearized constructs, as well as in some subcultures transfected with circular origin-containing constructs, resistance was conferred by integration into the host genome. However, several examples were found of G418-resistant transfectants maintaining the YACneo and the YAC/S3 circular constructs in a strictly episomal state after long-term culture in selective medium, with 80-90% stability per cell division. The episomes were found to replicate semiconservatively in a bromodeoxyuridine pulse-labeling assay for < -130 cell generations after transfection. Furthermore, after < -172 cell generations rescued episomal DNA could be isolated intact and unarranged, and could be used to retransform bacteria. These versatile constructs, containing mammalian origins, have the capacity for further modification with human telomere or large putative centromere elements, in an effort to move towards construction of a human artificial chromosome.

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11 482 SMCPOLYL MP DIATED CHROMOSOME
TRANSFER
12 11852 S ELECTROPORAT?
13 2 S11 AND 12
14 2 DUP REM 13 (0 DUPLICATES REMOVED)
15 173 S ELECTROTRANSFECT?
16 26 S TRANSFECT AND ELECTRIC?
17 2095 S TRANSFECT AND PULSE
18 552069 S CHROMOSOME
19 41 S17 AND 18
20 23 DUP REM 19+18 DUPLICATES REMOVED)

-s 12 or 15 or 17
11 1374512 OR 15 OR 17

-s 11 and 11
112 2111 AND 11

-s 112 not 13
113 0112 NOT 13

-s 18 and 111

114 - micelle or lipid or liposome

115 - 833822 MICELLE OR LIPID OR LIPOSOME

116 - 833822 AND 115

117 - dup item 116

PROCESSING COMPLETED FOR 116
117 - >DUPLICATE 116 (4 DUPLICATES REMOVED)

and also 19

117 ANSWER 1 OF 9 CAPLUS COPYRIGHT 2002 ACS
11 Compositions and methods for the treatment of diseases related to
faulty cholesterol regulationSO PCT Int. Appl. 75 pp.
CODEN: PIIXD2117 ANSWER 2 OF 9 CAPLUS COPYRIGHT 2002 ACS
11 Detection and interpretation of mutations using animal cell hosts to
express human genes present on a single copy of a human**chromosome**SO PCT Int. Appl. 149 pp.
CODEN: PIIXD2117 ANSWER 3 OF 9 CAPLUS COPYRIGHT 2002 ACS
11 Methods for binding an exogenous zinc finger protein to cellular
chromatinSO PCT Int. Appl. 49 pp.
CODEN: PIIXD2

117 ANSWER 4 OF 9 MEDLINE

DUPLICATE 1

11 A flow cytometry technique for measuring **chromosome**-mediated
gene transfer

SO CYTOMETRY (2001 Jun 1) 44 (2) 100-5.

Journal code: 8102328, ISSN: 0196-4763.

117 ANSWER 5 OF 9 CAPLUS COPYRIGHT 2002 ACS

11 EAC's assisted methods for introducing individual **chromosomes**
into cells

SO PCT Int. Appl. 24 pp.

CODEN: PIIXD2

117 ANSWER 6 OF 9 BIOSIS COPYRIGHT 2002 BIOLOGICAL

ABSTRACTS INC.

11 Conversion of normal beta-globin to sickle beta-globin by small
homologous replacement.SO Blood (November 16, 2000) Vol. 96, No. 11 Part 2, pp. 379b.
print.Meeting Info: 42nd Annual Meeting of the American Society of
Hematology
San Francisco, California, USA December 01-05, 2000 American
Society of
Hematology
ISSN: 0006-4971.

117 ANSWER 7 OF 9 CAPLUS COPYRIGHT 2002 ACS

11 methods for prep. mammalian artificial **chromosomes** (MACs)
SO PCT Int. Appl. 248 pp.

CODEN: PIIXD2

117 ANSWER 8 OF 9 MEDLINE

11 A system for generalized mutagenesis of Haemophilus ducreyi

SO INFECTION AND IMMUNITY (1995 Aug) 63 (8) 2976-82

Journal code: 0246127, ISSN: 0019-9567.

117 ANSWER 9 OF 9 MEDLINE DUPLICATE 2

11 Molecular complementation of a collagen mutation in mammalian
cells, using yeast artificial **chromosomes**.

SO EMBO JOURNAL (1992 Feb) 11 (2) 417-22

Journal code: 8208664, ISSN: 0261-4189

dibib ab 9.8.7.5.2

117 ANSWER 9 OF 9 MEDLINE

DUPLICATE 2

ACCESSION NUMBER: 92164627 MEDLINE
DOCUMENT NUMBER: 92164627 PubMed ID: 157326
TITLE: Molecular complementation of a collagen mutation in
mammalian cells using yeast artificial **chromosomes**

AUTHOR: Strauss W M; Jacusch R

CORPORATE SOURCE: Whitehead Institute for Biomedical
Research, Massachusetts

Institute of Technology, Cambridge 02142

CONTRACT NUMBER: 5132 GM13756-02 (NICMS)
5R35 CA44239-05 (NCI)
HG000198-01 (NIHGRD)

SOURCE: EMBO JOURNAL (1992 Feb) 11 (2) 417-22

Journal code: 8208664, ISSN: 0261-4189.

PUB COUNTRY: ENGLAND, United Kingdom

DOCUMENT TYPE: Journal Article (JOURNAL ARTICLE)

LANGUAGE: English

FILE SEGMENT: Priority Journals

ENTRY MONTH: 199203

ENTRY DATE: Entered SIN: 19920417

Last Updated on SIN: 19980206

Entered Medline: 19920314

AB: The cloning of large contiguous segments of mammalian DNA in
Saccharomycescerevisiae has become possible with the advent of Yeast Artificial
chromosomes (YACs). We are interested in extending the technique
of genetic complementation analysis to the molecular level through
theintroduction of YACs into mammalian cells and the mammalian
germline. Wereport the successful introduction of homogeneous DNA derived
from a 150kb YAC spanning the murine Colla1 locus into murine fibroblasts
carryinga mutation at this locus. The YAC DNA was fractionated by **pulse**
field electrophoresis, condensed with polyamines, and introduced
intomutant fibroblasts via **DNA-lipid micelles**. The DNA was
integrated as a stable intact unit in 10% of the **transfected**
clones conferring collagen RNA expression to the mutant cells.

117 ANSWER 8 OF 9 MEDLINE

ACCESSION NUMBER: 95347810 MEDLINE

DOCUMENT NUMBER: 95347810 PubMed ID: 7622219

TITLE: A system for generalized mutagenesis of Haemophilus

ducreyi

AUTHOR: Stevens M E; Cope L D; Radolt J D; Hansen F J

CORPORATE SOURCE: Department of Microbiology, University of

Texas

Southwestern Medical Center, Dallas 75235-9048, USA

CONTRACT NUMBER: AI22011 (NIH)

CA09082-19 (NCI)

F32-AI08848 (NIH)

SOURCE: INFECTION AND IMMUNITY (1995 Aug) 63 (8)

2976-82

Journal code: 0246127, ISSN: 0019-9567.

PUB COUNTRY: United States

DOCUMENT TYPE: Journal Article (JOURNAL ARTICLE)

LANGUAGE: English

FILE SEGMENT: Priority Journals

ENTRY MONTH: 199508

ENTRY DATE: Entered SIN: 19950911

Last Updated on SIN: 19990129

Entered Medline: 19950825

AB: The lack of a generalized mutagenesis system for Haemophilus
ducreyi has

hampered efforts to identify virulence factors expressed by this

sexually transmitted pathogen. To address this issue, the transposable element *In1545-delta 3*, which encodes resistance to kanamycin, was evaluated for its ability to insert randomly into the *H. ducreyi* chromosome and produce stable, isogenic mutants. Electroporation of *H. ducreyi* with a heterologous plasmid pMS1 carrying *In1545-delta 3* resulted in the production of 104 kanamycin-resistant transformants.

Southern blot analysis of a number of these transformants indicated that insertion of the transposon into the **chromosome** occurred at a number of different sites. This pMS1-based transposon delivery system was used to produce an *H. ducreyi* mutant that expressed an altered lipooligosaccharide (LOS). Passage of this mutant *in vitro* in the presence or absence of kanamycin did not affect the stability of the transposon insertion. To confirm that the observed mutant phenotype was the result of the transposon insertion, a chromosomal fragment containing *In1545-delta 3* was cloned from this *H. ducreyi* LOS mutant. Electroporation of the wild-type *H. ducreyi* strain with this DNA fragment yielded numerous kanamycin-resistant transformants, the majority of which had the same altered LOS phenotype as the original mutant. Southern blot analysis confirmed the occurrence of proper allelic exchange in the LOS-deficient transformants obtained in this back cross experiment. The ability of *In1545-delta 3* to produce insertion mutations in *H. ducreyi* should facilitate genetic analysis of this pathogen.

117. ANSWER 7 OF 9: CAPLUS. COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1997118636 CAPLUS

DOCUMENT NUMBER: 2819358

TITLE: methods for prep_g mammalian artificial chromosomes (MACS)

INVENTOR(S): Hadaczky, Gyula; Szalay, Aladar A.; American Gene Therap., Inc.; Biological Research Center of the Hungarian Academy of Sciences; Eoma Linda University

SOURCE: PCT Int. Appl., 248 pp
CODEN: PIIXND2

DOCUMENT TYPE: Patent

LANGUAGE: English

PATENT INFORMATION

PATENT NO.	FILED DATE	APPLICATION NO. DATE
WO 9740183 A2	19971030	WO 1997-05911 19970410
W- AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK,		
EE, ES, EL, GB, GR, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK,		
LT, LS, PT, PL, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU,		
SD, SI, SG, SE, SK, TT, TM, TR, TT, UA, UG, US, TZ, VN, YU, ZA, ZW, AM, AZ,		
BY, KG, KZ, MD, PL, LT, TM, RW, AL, BL, BE, BG, CG, CH, CL, CM, DE, DK, ES, H, FR, GA, GB, GR,		
IE, H, LU, MC, MI, MR, NL, NE, PT, SE, SN, TD, TG		
PRIORITY APPN. INFO.: US 1996-629822 19960410		
US 1996-682080 19960715		
US 1996-695191 19960807		

AB: Methods for prep_g cell lines that contain artificial **chromosomes**, methods for prep_g of artificial **chromosomes**, methods for purif_g of artificial **chromosomes**, methods for targeted insertion of heterologous DNA into artificial **chromosomes**, and methods for delivery of the **chromosome** to selected cells and

tissues are provided. Also provided are cell lines for use in the methods, and cell lines and **chromosomes** produced by the methods. In particular, satellite artificial **chromosomes** [SATAC's] that, except for inserted heterologous DNA, are substantially composed of heterochromatin, are provided. Methods for use of the artificial **chromosomes**, including for gene therapy, produc_g of gene products and produc_g of transgenic plants and animals are also provided.

117. ANSWER 8 OF 9: CAPLUS. COPYRIGHT 2002 ACS

ACCESSION NUMBER: 2000-201967 CAPLUS

DOCUMENT NUMBER: 13319076

TITLE: FACS-assisted methods for introducing individual **chromosomes** into cells

INVENTOR(S): Nolan, Edward M.; Rabbissay, Dietmar P.; Hofmann, Gunter A.

PATENT ASSIGNEE: Genetronics, Inc., USA

SOURCE: PCT Int. Appl., 24 pp

CODEN: PIIXND2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION

PATENT NO.	FILED DATE	APPLICATION NO. DATE
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WO 2000-034436 A2	20000615	WO 1999-US28715
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19991203

WO 2000-034436 A3	20010920
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W- AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU,
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CZ, DE, DK, DM, EL, ES, FI, GB, GD, GE, GH, GM, HR, HU,

ID, IL, IS, IS, IP, KF, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV,

MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PL, RO, RU, SD,

SE, SG, SI, SK, SL, TM, TR, TT, TZ, VA, UG, US, UZ, VN, YU, ZA,

ZW, AM,

AZ, BY, EG, KZ, MD, RU, TI, TM

RW, GE, GM, KE, LS, MW, SD, SE, SZ, TZ, UG, ZW, AT, BE,

CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BE, BI,

CL, CG, CL, CM, GA, GN, GW, ME, MP, NE, SN, TD, TG
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AU 2000019330 A1 20000626 AU 2000-19330 19991203
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US 2002019052 A1 20020214 US 2001-974882 20011010

PRIORITY APPN. INFO.: US 1998-110951P P 19981204
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WO 1999-US28715 W 19991203

US 1999-453610 B1 19991204

AB: The present invention provides methods and app. for the delivery of at least one **chromosome** into a cell. Invention methods and app. employ FACS or MACS technol. for rapidly processing cells and for confirming the introduction of **chromosome(s)** into the cell. The introduction of the **chromosome(s)** into the cell is mediated by one or more of a laser, a linear accelerator or elec. induced fusion of a cell and encapsulated **chromosome(s)**. Invention methods provide for the rapid and reliable processing assoc'd. with FACS and MACS technol.

To process thousands of cells a minute, thereby enabling large scale gene transfer.

117. ANSWER 2 OF 9: CAPLUS. COPYRIGHT 2002 ACS

ACCESSION NUMBER: 2002-276207 CAPLUS

DOCUMENT NUMBER: 136289911

TITLE: Detection and interpretation of mutations using animal cell hosts to express human genes present on a single copy of a human **chromosome**

INVENTOR(S): Beaudet, Arthur; Bodamer, Olaf; Killary, Ann; Lovell, Mercedes

PATENT ASSIGNEE(S): Board of Regents, the University of Texas System, USA

SOURCE: PCT Int. Appl., 149 pp

CODEN: PINXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC NUM COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND DATE	APPLICATION NO. DAU
WO 2002029107	A2 20020411	WO 2001A820965
20011002		
W, AE, AG, AT, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CL, CZ, DE, DK, DM, DZ, EC, EE, ES, EL, GB, GD, GE, GH, GM, HR, HU, ID, IE, IN, IS, JP, KE, KG, KP, KR, KZ, LC, UK, LR, ES, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SI, TJ, TM, TR, TT, TZ, UA, UG, UY, VN, YU, ZA, ZW, AM, AZ, BY, KG, EZ, MD, RU, TJ, TM, RW, GE, GM, KE, US, MW, MZ, SD, SI, SZ, TZ, UG, ZW, AL, BE, CH, CY, DE, DK, ES, H, FR, GB, GR, IL, IT, LU, MC, NL, PT, SE, TR, BE, BL, CE, CG, CL, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG		
16	US 2002137067 A1 20020926	US 2001-969861 20011002
PRIORITY APPN. INFO:	US 2000-2-7471P	P 20001002

AB: The present invention relates to a method for detection and

interpretation

of loss-of-function or gain-of-function mutations for test genes of interest. The genes of interest include those assoco. with inherited genetic disorders. The method involves testing for gene function by transferring single copies of individual human **chromosomes** into a suitable host cell. Human cells are obtained from peripheral blood. Transfer is preferably by micro-cell-mediated **chromosome** transfer. Transfer is screened for anal. of expression of a marker

gene closely linked to the gene of interest. Guidelines for the selection of host cells and marker genes that can be used to detect transfer are described. The preferred markers are cell surface proteins such as ICAM-1 that can be easily assayed or used for fluorescence activated cell sorting. The method is demonstrated by detection of a mutation in the human ED1 receptor gene on **chromosome** 19 using CHO cells as a host.

ed his

(FILED/PROMPT ENTERED AT 15:05:39 ON 02 OCT 2002)

FILED/MIDLINE, BIOSIS, CAPLUS ENTERED AT 15:05:47 ON
02 OCT 2002

11 482 S MICROCELL-MEDIATED CHROMOSOME
TRANSFER

12 1 852 S ELECTROPORATION

13 2 S 14 AND 12

14 2 DUP REM 13 (0 DUPLICATES REMOVED)

15 173 S ELECTROTRANSECT?

16 26 S TRANSLECT AND ELECTRIC?

17 2095 S TRANSLECT AND PULSE

18 552069 S CHROMOSOME

19 41 S 17 AND 18

20 23 DUP REM 19 (0 DUPLICATES REMOVED)

21 13745 S 12 OR 15 OR 17

22 2 S 11 AND 13

23 6 S 12 NOT 13

114 775 S 18 AND 113

115 83182 S MICROCELL OR LIPID OR LIPOSOME

116 1 S 14 AND 115

117 9 DUP REM 16 (4 DUPLICATES REMOVED)

-S10305

PROXIMITY OPERATOR LEVEL NOT CONSISTENT WITH

FIELD CODE - AND OPERATOR ASSUMED T35(S)151

PROXIMITY OPERATOR LEVEL NOT CONSISTENT WITH

FIELD CODE - AND OPERATOR ASSUMED T36(S)152

PROXIMITY OPERATOR LEVEL NOT CONSISTENT WITH

FIELD CODE - AND OPERATOR ASSUMED T37(S)153

118 825 S 118 S 115

-S 12 OR 15

119 1192812 OR 15

-S 115 S 119

120 477 145 S 119

-S dup rem 120

PROCESSING COMPLETED FOR 120

121 280 DUP REM 120 (197 DUPLICATES REMOVED)

-S large dna

122 2727 LARGE DNA

-S 121 and 122

123 6 121 AND 122

-S 121 not py-1999

124 184 123 NOT PY-1999

-S d 110 160-184

124 ANSWER 160 OF 184 CAPLUS COPYRIGHT 2002 ACS

11 Reversible electrical breakdown of bilayer lipid membranes with a

ramped

voltage and the quantitative analysis based on a transient aqueous

pore

model

SO Memoirs of the Faculty of Engineering, Kyushu University (1943-

1999)

(1994), 54(4), 263-77

CODEN: MEKSAS; ISSN: 0923-6160

124 ANSWER 161 OF 184 CAPLUS COPYRIGHT 2002 ACS

11 Commercial **liposomes** and **electroporation** can deliver

soluble antigen for class I presentation in CTL generation

SO Cytotoxic Cells (1993), 49:6. Editors: Sitkovsky, Michael V.;

Henkart,

Pierre A. Publisher: Birkhaeuser, Boston, Mass.

CODEN: 608ZAF

124 ANSWER 162 OF 184 CAPLUS COPYRIGHT 2002 ACS

11 Antisense oligonucleotides which combat aberrant splicing and

methods for

their use

SO PCT Int. Appl., 58 pp.

CODEN: PINXD2

124 ANSWER 163 OF 184 CAPLUS COPYRIGHT 2002 ACS

11 **Electroporation** phenomena: Electro-optics of plasmid DNA and of

lipid bilayer vesicles

SO Colloid Mol. Electro-Opt. Proc. Int. Electro-Opt. Symp., 6th

(1992),

Meeting Date 1991, 197-296. Editors: Jennings, Barry R.; Stoylov,

Stoil

P. Publisher: Inst. Phys., Bristol, UK.

CODEN: 601UAM

124 ANSWER 164 OF 184 CAPLUS COPYRIGHT 2002 ACS

11 Physical methods for plant gene transfer

SO Biotechnol. Crop Improv., Asia (1992), 213-33. Editors: Moss, J.

P
Publisher: Int. Crops Res. Inst. Semip. And Trop., Patancheru, India
CODEN: FOVJAM

124 ANSWER 165 OF 184 CAPLUS COPYRIGHT 2002 ACS
II Membrane electroporation toward a molecular mechanism
SO Electr. Magn. Biol. Med., Rev. Res. Pap. World Congr., 1st (1993), 109-111
Publ. by San Francisco Press
CODEN: EMWAS

124 ANSWER 166 OF 184 CAPLUS COPYRIGHT 2002 ACS
II Transfection of plant protoplasts with tobacco mosaic virus RNA by
using **electroporation**, PEG and cationic **liposome**-mediated
methods
SO Shengwu Huaxue Yu Shengwu Wuji Xuebao (1994), 26(1), 7-13
CODEN: SHWPAT; ISSN: 0582-9879

124 ANSWER 167 OF 184 CAPLUS COPYRIGHT 2002 ACS
II Gene transfer to leafy protoplasts by lipofection and electroporation
SO Journal of Liposomal Research (1993), 3(2), 707-16
CODEN: JLRFL; ISSN: 0898-2104

124 ANSWER 168 OF 184 CAPLUS COPYRIGHT 2002 ACS
II Antimicrobial enzymes
SO Biochemical Education (1993), 21(3), 139-41
CODEN: BIEDDX; ISSN: 0007-4412

124 ANSWER 169 OF 184 CAPLUS COPYRIGHT 2002 ACS
II Expression of microbial genes in plants
SO Microb. Gene Technol., Proc. Natl. Symp., (1991), Meeting Date
1990, 17-19
Editor(s): Polasa, H. Publisher: South Asian Publishers, New Delhi, India.
CODEN: 59JLAE

124 ANSWER 170 OF 184 CAPLUS COPYRIGHT 2002 ACS
II Effects of electroporation conditions on transdermal delivery
SO Proc. Int. Symp. Controlled Release Bioact. Mater., 20th (1993), 95-6.
Editor(s): Roseman, Theodore J.; Peppas, Nicholas A.; Gabelnick, Henry L.
Publisher: Controlled Release Soc., Deerfield, Ill.
CODEN: 59IOM

124 ANSWER 171 OF 184 CAPLUS COPYRIGHT 2002 ACS
II Plant genetic transformation
SO Plant Biotechnol. (1992), 151-82. Editor(s): Fowler, Michael W.; Warren, Granar S.; Moo-Young, Murray. Publisher: Pergamon, Oxford, UK.
CODEN: 58BXAP

124 ANSWER 172 OF 184 CAPLUS COPYRIGHT 2002 ACS
II Exact solution of a stochastic model of electroporation
SO Charge Field Eff., Biosyst.-3, [Int. Symp.], 3rd (1992), Meeting Date
1992, 27-184. Editor(s): Allen, Milton J. Publisher: Birkhaeuser, Boston, Mass.
CODEN: 57VVAV

124 ANSWER 173 OF 184 CAPLUS COPYRIGHT 2002 ACS
II Effect of surface charges on the **electroporation** process in
lipid bilayers
SO Progress in Colloid & Polymer Science (1991), 84, Trends Colloid Interface Sci., 5, 189-99.
CODEN: PCPSD7; ISSN: 0340-255X

124 ANSWER 174 OF 184 CAPLUS COPYRIGHT 2002 ACS
II Introduction of DNA and proteins into cells
SO Saishin Igaku (1991), 46(Suppl.), 857-68
CODEN: SAIGAK; ISSN: 0370-8241

124 ANSWER 175 OF 184 CAPLUS COPYRIGHT 2002 ACS
II Electroporation - a unified, quantitative theory of reversible
electrical breakdown and mechanical rupture in artificial planar bilayer
membranes
SO Bioelectrochem. Bioenerg. (1991), 25(2), 163-82
CODEN: BIEBEP; ISSN: 0302-4598

124 ANSWER 176 OF 184 CAPLUS COPYRIGHT 2002 ACS
II **Electroporation** of **lipid** vesicles by inner electric
fields
SO Charge Field Eff., Biosyst.-2, [Int. Symp.], (1989), 233-9
Editor(s): Allen, Milton J.; Cleary, Stephen F.; Hawridge, Fred M.
Publisher: Plenum, New York, N.Y.
CODEN: 56VZAF

124 ANSWER 177 OF 184 CAPLUS COPYRIGHT 2002 ACS
II Establishment of conditions for the transformation of nonaxenic
Dictyostelium strains
SO Dev. Genet. (N. Y.) (1990), 11(5-6), 291-5
CODEN: DGNTDW; ISSN: 0192-253X

124 ANSWER 178 OF 184 CAPLUS COPYRIGHT 2002 ACS
II Methods for introducing DNA into mammalian cells
SO Methods Enzymol. (1990), 185(Gene Expression Technol.), 527-37
CODEN: MENEAE; ISSN: 0076-6879

124 ANSWER 179 OF 184 CAPLUS COPYRIGHT 2002 ACS
II Introduction of foreign DNA into walled plant cells via liposomes
injected
into the vacuole: a preliminary study
SO Physiol. Plant. (1990), 79(1), 184-9
CODEN: PHPLAE; ISSN: 0031-9317

124 ANSWER 180 OF 184 CAPLUS COPYRIGHT 2002 ACS
II Plant transformation by microinjection techniques
SO Physiol. Plant. (1990), 79(1), 213-17
CODEN: PHPLAE; ISSN: 0031-9317

124 ANSWER 181 OF 184 CAPLUS COPYRIGHT 2002 ACS
II The current-voltage relation of an aqueous pore in a lipid bilayer
membrane
SO Biochim. Biophys. Acta (1990), 1025(1), 10-14
CODEN: BBACAO; ISSN: 0006-3002

124 ANSWER 182 OF 184 CAPLUS COPYRIGHT 2002 ACS
II Current topics on gene transfer
SO Seifagaku (1988), 60(12), 1331-6
CODEN: SEIKAQ; ISSN: 0037-1017

124 ANSWER 183 OF 184 CAPLUS COPYRIGHT 2002 ACS
II New methods of transfection of mammalian cells (a minireview)
SO Mol. Biol. (Moscow) (1988), 22(6), 1445-50
CODEN: MOBJBO; ISSN: 0026-8984

124 ANSWER 184 OF 184 CAPLUS COPYRIGHT 2002 ACS
II Gene transfection and lymphocyte immortalization: a new approach
to human
monoclonal antibody production
SO Adv. Drug Delivery Rev. (1988), 2(2), 207-28
CODEN: ADDREP

124 ANSWER 185 OF 184 CAPLUS COPYRIGHT 2002 ACS
II Dynamics of **Electroporation** of Synthetic **Liposomes**
Studied Using a Pore-Mediated Reaction, Ag⁺ + Br⁻ / Jwdarw, AgBr
SO Journal of Physical Chemistry B (1998), 102(46), 9319-9322
CODEN: JPCBDE; ISSN: 1089-5647

124 ANSWER 186 OF 184 CAPLUS COPYRIGHT 2002 ACS

124. ANSWER 123 OF 184. CAPLUS. COPYRIGHT 2002 ACS
 II. Electroporation of Unilamellar Vesicles Studied by Using a Pore-Mediated Electron Transfer Reaction
 SO. Langmuir (1998), 14(20), 5802-5805
 CODEN: LANGDS; ISSN: 0743-7463

124. ANSWER 124 OF 184. CAPLUS. COPYRIGHT 2002 ACS
 II. Time response of a fluctuating lipid bilayer
 SO. Thin Solid Films (1998), 327-329, 796-799
 CODEN: THSDFL; ISSN: 0040-6090

124. ANSWER 125 OF 184. CAPLUS. COPYRIGHT 2002 ACS
 II. Topical delivery of antisense oligonucleotide in the skin
 SO. Proceedings of the International Symposium on Controlled Release of Biologic Materials (1998), 25th, 226-227
 CODEN: PRCPME; ISSN: 1022-0178

124. ANSWER 126 OF 184. CAPLUS. COPYRIGHT 2002 ACS
 II. Effect noise in bilayer lipid membranes
 SO. Europhysics Letters (1998), 43(1), 101-105
 CODEN: EELTEI; ISSN: 0295-5075

124. ANSWER 127 OF 184. CAPLUS. COPYRIGHT 2002 ACS
 II. Improving the intracellular delivery and molecular efficacy of antisense oligoribonucleotides in chronic myeloid leukemia cells: a comparison of streptavidin-mediated permeabilization, electroporation, and lipophilic conjugation
 SO. Blood (1998), 91(12), 4738-4746
 CODEN: BLOODA; ISSN: 0006-4971

124. ANSWER 128 OF 184. CAPLUS. COPYRIGHT 2002 ACS
 II. Improving the effectiveness of non-viral gene transfer methods
 SO. Cellular & Molecular Biology Letters (1997), 2(Suppl. 1), Biophysics of Membrane Transport, Pt. 1A, 97-110
 CODEN: CMBLEF; ISSN: 1425-8153

124. ANSWER 129 OF 184. CAPLUS. COPYRIGHT 2002 ACS
 II. Kinetics of the electroporative deformation of lipid vesicles and biological cells in an electric field
 SO. Berichte der Bunsen-Gesellschaft (1998), 102(4), 670-675
 CODEN: BBPCAN; ISSN: 0940-483X

124. ANSWER 130 OF 184. CAPLUS. COPYRIGHT 2002 ACS
 II. Detection of electroporation of liposomes by means of a fast electron transfer reaction
 SO. Book of Abstracts, 215th ACS National Meeting, Dallas, March 29-April 2 (1998), COLE-168 Publisher, American Chemical Society, Washington, D.C.
 CODEN: 65QFAA

124. ANSWER 131 OF 184. CAPLUS. COPYRIGHT 2002 ACS
 II. Transdermal delivery of macromolecules: recent advances by modification of skin's barrier properties
 SO. ACS Symposium Series (1997), 675 Therapeutic Protein and Peptide Formulation and Delivery, 124-153
 CODEN: ACSMS; ISSN: 0097-6156

124. ANSWER 132 OF 184. CAPLUS. COPYRIGHT 2002 ACS
 II. Electroporation of glycoporphin A in interdigititation-fusion giant unilamellar lipid vesicles
 SO. Journal of Biological Chemistry (1997), 272(41), 25524-25530
 CODEN: JBCHEA; ISSN: 0021-9258

124. ANSWER 133 OF 184. CAPLUS. COPYRIGHT 2002 ACS
 II. Changes in the electrical properties of the skin external layer during pulse electrotherapy
 SO. Biol. Membr. (1997), 14(3), 299-309
 CODEN: BIMEF9; ISSN: 0233-4755

124. ANSWER 134 OF 184. CAPLUS. COPYRIGHT 2002 ACS
 II. Direct transfection of polymetase chain reaction-generated DNA fragments into mammalian cells employing ethidium bromide indicator and ultrafiltration
 SO. Analytical Biochemistry (1997), 248(1), 190-193
 CODEN: ABACAS; ISSN: 0003-2697

124. ANSWER 135 OF 184. CAPLUS. COPYRIGHT 2002 ACS
 II. Electroporation of membrane electroporation and vesicle shape deformation
 SO. Current Opinion in Colloid & Interface Science (1996), 1(6), 790-799
 CODEN: COCSFI; ISSN: 1359-6294

124. ANSWER 136 OF 184. CAPLUS. COPYRIGHT 2002 ACS
 II. Irritation of Electro-optics of membrane electroporation in diphenylhexatriene-doped lipid bilayer vesicles (Biophys. Chem., 58 (1996) 109-116) (BIOCHI 2003) I
 SO. Biophys. Chem. (1996), 60(3), 153-153
 CODEN: BICIAZ; ISSN: 0301-4622

124. ANSWER 137 OF 184. CAPLUS. COPYRIGHT 2002 ACS
 II. Tissue electroporation for localized drug delivery
 SO. Advances in Chemistry Series (1995), 250(1) Electromagnetic Fields, 301-16
 CODEN: ADCSAI; ISSN: 0065-2393

124. ANSWER 138 OF 184. CAPLUS. COPYRIGHT 2002 ACS
 II. Construction of different expression vectors containing interleukin-2 (IL-2) gene and their expressions in eukaryotic cells
 SO. Shengwu Huaxue Yu Shengwu Wuji Xuebao (1995), 27(3), 247-53
 CODEN: SHWPAU; ISSN: 0582-9879

124. ANSWER 139 OF 184. CAPLUS. COPYRIGHT 2002 ACS
 II. Apparatus and method for efficient incorporation of molecules into cells
 SO. PCT Int. Appl. 44 pp.
 CODEN: PIXND2

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SO PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA (1994 Feb 15) 91 (4) 1480-4.
Journal code: 7505876 ISSN: 0027-8424.

124 ANSWER 73 OF 184 MEDLINE

II Transfection of cultured cells of the cotton boll weevil, Anthonomus grandis, with a heat-shock-promoter-chloramphenicol-acetyltransferase construct
SO INSECT MOLECULAR BIOLOGY (1992) 1 (2) 81-8.

Journal code: 9303579 ISSN: 0962-1075.

124 ANSWER 74 OF 184 MEDLINE

II Asymmetric black membranes formed by one monolayer of bipolar lipids at the air water interface
SO BIOCHIMICA ET BIOPHYSICA ACTA (1994 Jan 3) 1189 (1) 96-100.

Journal code: 0217513 ISSN: 0006-3002.

124 ANSWER 75 OF 184 MEDLINE

II Electroporation of mammalian skin: a mechanism to enhance transdermal drug delivery
SO PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA (1993 Nov 15) 90 (22) 10504-8.

Journal code: 7505876 ISSN: 0027-8424.

124 ANSWER 76 OF 184 MEDLINE

II A quantitative study of electroporation showing a plateau in net molecular transport
SO BIOPHYSICAL JOURNAL (1993 Jul) 65 (1) 414-22.
Journal code: 0370626 ISSN: 0006-3495.

Journal code: 0373226 ISSN: 0014-4827.

124 ANSWER 77 OF 184 MEDLINE

II Induced endocytosis in human fibroblasts by electrical fields
SO EXPERIMENTAL CELL RESEARCH (1993 Sep) 208 (1) 232-40.

Journal code: 0373226 ISSN: 0014-4827.

124 ANSWER 78 OF 184 MEDLINE

II Optimization of methods for transfecting Spiroplasma citri strain R8A2 HP with the spiroplasma virus SpV1 replicative form
SO PLASMID (1993 May) 29 (3) 193-205.
Journal code: 7802221 ISSN: 0147-619X.

124 ANSWER 79 OF 184 MEDLINE

II Novel in vitro gene transfer method for study of local modulators in vascular smooth muscle cells
SO HYPER TENSION (1993 Jun) 21 (6 Pt 2) 894-9.

124 ANSWER 80 OF 184 MEDLINE

II Comparison of **liposome** fusion and **electroporation** for the intracellular delivery of competence molecules to adherent cultured cells
SO JOURNAL OF PHARMACOLOGICAL AND TOXICOLOGICAL METHODS, (1993 Feb 29) 13: 29-35.
Journal code: 9206091 ISSN: 1056-8719

124 ANSWER 81 OF 184 MEDLINE

II Electroporation and commercial **liposomes** efficiently deliver soluble protein into the MHC class I presentation pathway Priming *in vitro* and *in vivo* for class I-restricted recognition of soluble antigen
SO JOURNAL OF IMMUNOLOGICAL METHODS, (1993 Mar 15) 160 (1):49-57.
Journal code: 1305440 ISSN: 0022-1759.

124 ANSWER 82 OF 184 MEDLINE

II Multidrug resistance: prospects for clinical management.
SO SAAS BUTTEIN, BIOCHEMISTRY AND BIOTECHNOLOGY, (1992 Jun 5) 48:52. Ref:
35.
Journal code: 8917120 ISSN: 1052-6781.

124 ANSWER 83 OF 184 MEDLINE

II Increased binding of liposomes to cells by electric treatment.
SO BIOCHIMICA ET BIOPHYSICA ACTA, (1991 Nov 18) 1070 (1): 193-7.
Journal code: 0217513 ISSN: 0006-3002.

124 ANSWER 84 OF 184 MEDLINE

II Influence of phorbol and alcohols on barrier defects in the erythrocyte membrane caused by oxidative injury and electroporation.
SO BIOCHIMICA ET BIOPHYSICA ACTA, (1991 Aug 26) 1067 (2): 111-22.
Journal code: 0217513 ISSN: 0006-3002.

124 ANSWER 85 OF 184 MEDLINE

II Lipid peroxidation in **electroporated** hepatocytes occurs much more readily than does hydroxyl radical formation.
SO BIOCHEMICAL JOURNAL, (1991 Aug 1) 277 (Pt 3): 767-71.
Journal code: 2847268 ISSN: 0264-6021.

124 ANSWER 86 OF 184 MEDLINE

II Liposome mediated *in vitro* transfection of pancreatic islet cells.
SO BIOMEDICA BIOCHIMICA ACTA, (1990) 49 (12): 1157-64.
Journal code: 8304435 ISSN: 0232-766X.

124 ANSWER 87 OF 184 MEDLINE

II Gene transfer methods for plants and cell cultures.
SO CHA FOUNDATION SYMPOSIUM, (1990) 154:198-208; discussion 208-12. Ref: 23.
Journal code: 0356636 ISSN: 0300-5208.

124 ANSWER 88 OF 184 MEDLINE

II Karyophilic properties of Semliki Forest virus nucleocapsid protein.
SO JOURNAL OF VIROLOGY, (1990 Oct) 64 (10):5123-31.
Journal code: 0022-538X.

124 ANSWER 89 OF 184 MEDLINE

II Coexpression of the platelet-derived growth factor (PDGF) B chain and the PDGF beta receptor in isolated pancreatic islet cells stimulates DNA synthesis
SO PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA, (1990 Aug 87 (15):5807-11.
Journal code: 7505876 ISSN: 0027-8424

d to o 40-59

124 ANSWER 40 OF 184 MEDLINE

II In *vitro* gene transfer methods into bladder without viral vectors.
SO HINYOKI AKIYOSHI, ACTA UROLOGICA JAPONICA, (1997 Nov) 41 (11):833-7.
Journal code: 0421145 ISSN: 0013-1994

124 ANSWER 41 OF 184 MEDLINE

II Atreoxin V and vesicle membrane electroporation.
SO EUROPEAN BIOPHYSICS JOURNAL, (1997) 26 (4):307-18.
Journal code: 8409413 ISSN: 0171-7571.

124 ANSWER 42 OF 184 MEDLINE

II Sphingosine-mediated **electroporative** DNA transfer through lipid bilayers.
SO FEBS LETTERS, (1997 Sep 22) 415 (1):81-6.
Journal code: 0165157 ISSN: 0014-5793.

124 ANSWER 43 OF 184 MEDLINE

II Potent and selective gene inhibition using antisense oligodeoxyribonucleotides.
SO MOLECULAR AND CELLULAR BIOCHEMISTRY, (1997 Jul) 172 (1-2):213-25.
Journal code: 0 64456 ISSN: 0090-8177.

124 ANSWER 44 OF 184 MEDLINE

II [Nonviral methods of gene transfer in gene therapy].
Nevirusnye metody perenosa genov v genot terapii.
SO VOPROSY MEDITSINSKOJ KHMIL, (1997 Jan-Feb) 43 (1):3-12.
Ref: 790
Journal code: 0416601 ISSN: 0042-8809.

124 ANSWER 45 OF 184 MEDLINE

II Heparin alters transdermal transport associated with electroporation.
SO BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS, (1997 May 29) 234 (3): 637-40.
Journal code: 0372516 ISSN: 0006-291X.

124 ANSWER 46 OF 184 MEDLINE

II Optimization of transfection of human endothelial cells.
SO ENDOTHELIUM, (1997) 5 (1):21-35.
Journal code: 9412590 ISSN: 1062-3329.

124 ANSWER 47 OF 184 MEDLINE

II Permeabilization of mammalian cells to proteins: poliovirus 2A(pro) as a probe to analyze entry of proteins into cells.
SO EXPERIMENTAL CELL RESEARCH, (1997 Apr 10) 232 (1): 186-90.
Journal code: 0373226 ISSN: 0014-4827.

124 ANSWER 48 OF 184 MEDLINE

II Dynamically stabilized pores in bilayer membranes.
SO BIOPHYSICAL JOURNAL, (1997 May) 72 (5): 2211-6.
Journal code: 0370626 ISSN: 0006-3495.

124 ANSWER 49 OF 184 MEDLINE

II Transcriptional modulation of viral reporter gene constructs following induction of the cellular stress response.
SO NUCLEAR ACIDS RESEARCH, (1997 Mar 1) 25 (5): 1082-4.
Journal code: 0411011 ISSN: 0305-1048.

124 ANSWER 50 OF 184 MEDLINE

II Gene transfection of mouse primordial germ cells *in vitro* and analysis of their survival and growth control.
SO EXPERIMENTAL CELL RESEARCH, (1997 Jan 10) 230 (1): 76-82.
Journal code: 0373226 ISSN: 0014-4827.

124 ANSWER 51 OF 184 MEDLINE
II A comparison of gene transfer methods in human dendritic cells
SO CANCER GENETIC THERAPY, (1997 Jan-Feb) 4 (1) 17-25
Journal code: 9412230 ISSN: 0929-1903

124 ANSWER 52 OF 184 MEDLINE
II Low sample volume causes differentiation in human thalidomide-treated cell
Line ED subjected to electroporation
SO CELLULAR AND MOLECULAR BIOLOGY, (1996 Dec) 42 (8) 1219-27
Journal code: 9216789 ISSN: 0145-5680

124 ANSWER 53 OF 184 MEDLINE
II Poloxamer 188 decreases susceptibility of artificial lipid membranes to **electroporation**
SO BIOPHYSICAL JOURNAL, (1996 Dec) 71 (6) 3229-41
Journal code: 0370626 ISSN: 0006-3495

124 ANSWER 54 OF 184 MEDLINE
II The in vitro biosynthesis of the copolysaccharide produced by Rhizobium leguminosarum bv. trifoliil strain NA 30.
SO CELLULAR AND MOLECULAR BIOLOGY, (1996 Jul) 42 (5) 737-58
Journal code: 9216789 ISSN: 0145-5680

124 ANSWER 55 OF 184 MEDLINE
II Adenovirus-assisted lipofection: efficient in vitro gene transfer of luciferase and cytosine deaminase to human smooth muscle cells.
SO ATHEROSCLEROSIS, (1996 Feb) 124 (1) 49-60
Journal code: 0242543 ISSN: 0021-9150

124 ANSWER 56 OF 184 MEDLINE
II Transdermal delivery of fentanyl by electroporation. I. Influence of electrical factors.
SO PHARMACEUTICAL RESEARCH, (1996 Apr) 13 (4) 559-65
Journal code: 8406521 ISSN: 0724-8741

124 ANSWER 57 OF 184 MEDLINE
II Contrasting effects of pinocembrin and agonist-mediated activation of protein kinase C on phosphoinositide and Ca²⁺ signalling in a human neuroblastoma
SO BIOCHEMICAL JOURNAL, (1996 Jun) 316 (Pt 3) 905-12
Journal code: 2984726R ISSN: 0264-6021

124 ANSWER 58 OF 184 MEDLINE
II Electro-optics of membrane **electroporation** in diphenylhexatriene-doped lipid bilayer vesicles.
SO BIOPHYSICAL CHEMISTRY, (1996 Jan 16) 58 (1-2) 109-16
Journal code: 0403171 ISSN: 0301-4622

124 ANSWER 59 OF 184 MEDLINE
II Delivery of protein antigen to the major histocompatibility complex class I-restricted antigen presentation pathway.
SO JOURNAL OF DRUG TARGETING, (1995) 3 (2) 91-109 Ref 177
Journal code: 9312476 ISSN: 1061-186X

124 ANSWER 60 OF 184 MEDLINE
II Protrusive growth from giant liposomes driven by actin polymerization.
SO PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA, (1999 Mar 2) 96 (5) 2048-53
Journal code: 7505876 ISSN: 0027-8424

124 ANSWER 61 OF 184 MEDLINE
II Failure to achieve gene conversion with chimeric circular oligonucleotides: potentially misleading PCR artifacts observed
SO ANTISENSE AND NUCLEIC ACID DRUG DEVELOPMENT, (1998 Dec) 8 (6) 531-6
Journal code: 9606142 ISSN: 1087-2906

124 ANSWER 22 OF 184 MEDLINE
II Improved transfection efficiency of chicken gonadal primordial germ cells
for the production of transgenic poultry.
SO TRANSGENIC RESEARCH, (1998 Jul) 7 (4) 247-52
Journal code: 9209126 ISSN: 0962-8819

124 ANSWER 23 OF 184 MEDLINE
II Kinetics of ultraweak light emission from human erythroleukemia K562 cells
upon electroporation.
SO BIOPHICA ET BIOPHYSICA ACTA, (1998 Nov 11) 1414 (1-2) 43-50
Journal code: 0217513 ISSN: 0006-3062

124 ANSWER 24 OF 184 MEDLINE
II Up-regulation of the expression of major histocompatibility complex class I antigens by plasmid DNA transfection in non-hematopoietic cells.
SO FEBS LETTERS, (1998 Sep 25) 436 (1) 55-60
Journal code: 0155157 ISSN: 0014-5793

124 ANSWER 25 OF 184 MEDLINE
II Proteoglycans mediate cationic liposome-DNA complex-based gene delivery in vitro and in vivo.
SO JOURNAL OF BIOLOGICAL CHEMISTRY, (1998 Oct 2) 273 (40) 26164-70
Journal code: 2985121R ISSN: 0021-9258

124 ANSWER 26 OF 184 MEDLINE
II Electroperturbation of human stratum corneum fine structure by high voltage pulses: a freeze-fracture electron microscopy and differential thermal analysis study.
SO JOURNAL OF INVESTIGATIVE DERMATOLOGY, SYMPOSIUM PROCEEDINGS, (1998 Aug) 3 (2) 153-8
Journal code: 9609659 ISSN: 1087-0024

124 ANSWER 27 OF 184 MEDLINE
II Theory of skin electroporation: implications of straight-through aqueous pathway segments that connect adjacent corneocytes.
SO JOURNAL OF INVESTIGATIVE DERMATOLOGY, SYMPOSIUM PROCEEDINGS, (1998 Aug) 3 (2) 143-7
Journal code: 9609059 ISSN: 1087-0024

124 ANSWER 28 OF 184 MEDLINE
II The reduction in **electroporation** voltages by the addition of a surfactant to planar lipid bilayers.
SO BIOPHYSICAL JOURNAL, (1998 Aug) 75 (2) 880-8
Journal code: 0370626 ISSN: 0006-3495

124 ANSWER 29 OF 184 MEDLINE
II In vivo gene transfer methods in the bladder without viral vectors.
SO BRITISH JOURNAL OF UROLOGY, (1998 Jun) 81 (6) 870-4
Journal code: 15740090R ISSN: 0007-1331

124 ANSWER 30 OF 184 MEDLINE
II Electroporation and shock-induced transmembrane potential in a cardiac fiber during defibrillation strength shocks.
SO ANNALS OF BIOMEDICAL ENGINEERING, (1998 Jul-Aug) 26 (4) 584-96
Journal code: 0361512 ISSN: 0090-6964

124 ANSWER 31 OF 184 MEDLINE
II Spatial dynamics of G_i-tagged proteins investigated by local fluorescence enhancement
SO NATURE BIOTECHNOLOGY, (1996 Oct) 14 (10) 1252-6.
Journal code: 9604648; ISSN: 1087-0156.

124 ANSWER 32 OF 184 MEDLINE
II A novel method for DEAE-dextran-mediated transfection of adherent primary cultured human macrophages.
SO JOURNAL OF IMMUNOLOGICAL METHODS, (1998 Feb) 211 (1-2) 79-89.
Journal code: 1305440; ISSN: 0022-1759.

124 ANSWER 33 OF 184 MEDLINE
II Electrical properties of skin at moderate voltages: contribution of appendageal macropores.
SO BIOPHYSICAL JOURNAL, (1998 Feb) 74 (2 Pt 1) 843-56.
Journal code: 0270626; ISSN: 0006-3495.

124 ANSWER 34 OF 184 MEDLINE
II Chronopotentiometric studies of **electroporation** of bilayer **lipid** membranes.
SO BIOCHIMICA ET BIOPHYSICA ACTA, (1998 Mar 2) 1369 (2) 204-12.
Journal code: 0217511; ISSN: 0006-3002.

124 ANSWER 35 OF 184 MEDLINE
II Electro-encapsulating drugs within blood platelets: local delivery to injured arteries during angioplasty.
SO SEMINARS IN INTERVENTIONAL CARDIOLOGY, (1996 Mar) 1 (1) 91-102; Ref: 27.
Journal code: 9606070; ISSN: 1084-2764.

124 ANSWER 36 OF 184 MEDLINE
II Transient transfection of oligodendrocyte progenitors by electroporation.
SO NEUROCHEMICAL RESEARCH, (1998 Mar) 23 (3) 421-6.
Journal code: 7613461; ISSN: 0364-3190.

124 ANSWER 37 OF 184 MEDLINE
II Changes in the electrical properties of the skin outermost layer during pulse electrotreatment.
SO MEMBRANE AND CELL BIOLOGY, (1997) 11 (3) 367-80.
Journal code: 9517472; ISSN: 1023-6597.

124 ANSWER 38 OF 184 MEDLINE
II Reversible skin permeabilization for transdermal delivery of macromolecules.
SO CRITICAL REVIEWS IN THERAPEUTIC DRUG CARRIER SYSTEMS, (1997) 14 (4) 455-83; Ref: 206.
Journal code: 8511159; ISSN: 0743-4865.

124 ANSWER 39 OF 184 MEDLINE
II Mechanism of electroporative dye uptake by mouse B cells.
SO BIOPHYSICAL JOURNAL, (1998 Jan) 74 (1) 98-108.
Journal code: 0370626; ISSN: 0006-3495.

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124 ANSWER 40 OF 184 MEDLINE
II [Transdermal administration of drugs by electroporation]. Administration transdermique de medicaments par electroporation.
SO BULLETIN ET MEMOIRES DE L'ACADEMIE ROYALE DE MEDICINE DE BELGIQUE, (1999) 154 (6 Pt 2) 327-33.
Journal code: 7608462; ISSN: 0377-8231.

124 ANSWER 2 OF 184 MEDLINE
II Pharmaceutical therapies for sealing of permeabilized cell membranes in electrical injuries.
SO ANNALS OF THE NEW YORK ACADEMY OF SCIENCES, (1999 Oct 20) 888 266-71.
Journal code: 7506858; ISSN: 0077-8923.

124 ANSWER 3 OF 184 MEDLINE
II Changes in **electroporation** thresholds of lipid membranes by surfactants and peptides.
SO ANNALS OF THE NEW YORK ACADEMY OF SCIENCES, (1999 Oct 20) 888 249-65.
Journal code: 7506858; ISSN: 0077-8923.

124 ANSWER 4 OF 184 MEDLINE
II Biological effects of electric shock and heat denaturation and oxidation of molecules, membranes, and cellular functions.
SO ANNALS OF THE NEW YORK ACADEMY OF SCIENCES, (1999 Oct 20) 888 211-32.
Journal code: 7506858; ISSN: 0077-8923.

124 ANSWER 5 OF 184 MEDLINE
II Dynamics of membrane sealing in transient electroporabilization of skeletal muscle membranes.
SO ANNALS OF THE NEW YORK ACADEMY OF SCIENCES, (1999 Oct 20) 888 195-210.
Journal code: 7506858; ISSN: 0077-8923.

124 ANSWER 6 OF 184 MEDLINE
II Membrane electroporation and electromechanical deformation of vesicles and cells.
SO FARADAY DISCUSSIONS, (1998) (111) 111-25; discussion 137-57.
Journal code: 9212301; ISSN: 1-59-6640.

124 ANSWER 7 OF 184 MEDLINE
II Efficient and reliable transfection of mouse erythroleukemia cells using cationic lipids.
SO BLOOD CELLS, MOLECULES, AND DISEASES, (1999 Oct-Dec) 25 (5-6) 299-304.
Journal code: 9509932; ISSN: 1079-9796.

124 ANSWER 8 OF 184 MEDLINE
II Chemical and physical in vitro alterations of the erythrocyte membrane: a model for its pathophysiological states?.
SO NOVARTIS FOUNDATION SYMPOSIUM, (1999) 226 20-34; discussion 34-6; Ref: 20.
Journal code: 9807767.

124 ANSWER 9 OF 184 MEDLINE
II Apoptosis induced by DNA uptake limits transfection efficiency.
SO EXPERIMENTAL CELL RESEARCH, (1999 Dec 15) 253 (2) 541-50.
Journal code: 0373226; ISSN: 0014-4827.

124 ANSWER 10 OF 184 MEDLINE
II Molecular electroporation: a unifying concept for the description of membrane pore formation by antibacterial peptides, exemplified with NE-lysin.
SO LETTERS, (1999 Nov 26) 462 (1-2) 155-8.
Journal code: 0155157; ISSN: 0014-5793.

124 ANSWER 11 OF 184 MEDLINE
II Protective role for proteoglycans against cationic lipid cytotoxicity allowing optimal transfection efficiency in vitro.
SO BIOCHEMICAL JOURNAL, (1999 Sep 1) 342 (Pt 2) 281-6.
Journal code: 2984726R; ISSN: 0264-6021.

124 ANSWER 12 OF 184 MEDLINE
II Expression and functional characterization of the cardiac muscle

ryanodine receptor Ca²⁺ release channel in Chinese hamster ovary cells
SO BIOPHYSICAL JOURNAL, (1999 Aug) 77 (2) 808-16
Journal code: 0270626 ISSN: 0006-2495

124 ANSWER 13 OF 184 MEDLINE

II Electroporation-mediated topical delivery of vitamin C for cosmetic applications
SO BIOPHYSICAL CHEMISTRY AND BIOENERGETICS, (1999 May) 143 (2) 452-61
Journal code: 9538877 ISSN: 0302-4598

124 ANSWER 14 OF 184 MEDLINE

II The effects of gramicidin on **electroporation of lipid bilayers**
SO BIOPHYSICAL JOURNAL, (1999 Jun) 76 (6) 3150-7
Journal code: 0270626 ISSN: 0006-2495

124 ANSWER 15 OF 184 MEDLINE

II Electric field-induced transient barrier, ringence and light scattering of synthetic liposomes
SO BIOCHIMICA ET BIOPHYSICA ACTA, (1999 May 12) 1418 (2) 295-306
Journal code: 0217513 ISSN: 0006-3002

124 ANSWER 16 OF 184 MEDLINE

II Time-dependent ultrastructural changes to porcine stratum corneum following an electric pulse
SO BIOPHYSICAL JOURNAL, (1999 May) 76 (5) 2824-32
Journal code: 0270626 ISSN: 0006-2495

124 ANSWER 17 OF 184 MEDLINE

II Kinetics of sealing for transient electropores in isolated mammalian skeletal muscle cells
SO BIOPHYSICAL CHEMISTRY, (1999) 20 (3) 194-201
Journal code: 8008281 ISSN: 0197-8462

124 ANSWER 18 OF 184 MEDLINE

II Transfection of myelomonocytic cell lines: cellular response to a **lipid-based reagent and electroporation**
SO ANALYTICAL BIOCHEMISTRY, (1999 Apr 10) 269 (1) 219-21
Journal code: 0370535 ISSN: 0003-2697

124 ANSWER 19 OF 184 MEDLINE

II Chemical transformations in individual ultrasmall biomimetic containers
SO SCIENCE, (1999 Mar 19) 283 (5409) 1892-5
Journal code: 0404511 ISSN: 0356-8075

= ddbab 178 176,157,148,146,133,93,87,83,77,22

124 ANSWER 178 OF 184 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 1990546085 CAPLUS
DOCUMENT NUMBER: 113-146085
TITLE: Methods for introducing DNA into mammalian cells
AUTHOR(S): Keown, Wayne A.; Campbell, Colin R.; Kucherlapati, Raju S.

CORPORATE SOURCE: Coll Med, Univ, Illinois, Chicago, IL, 60612, USA
SOURCE: Methods Enzymol, (1990), 185(Gene Expression Technol), 527-57
CODEN: MENZA1, ISSN: 0076-6879

DOCUMENT TYPE: Journal, General Review
LANGUAGE: English

AB: A review with 48 refs. DNA transfer methods discussed include:
calcium phosphate copptn., DEAE-Dextran-mediated transfection, elec-
field-mediated transfection (**electroporation**),
polybrene-mediated transfection, **lipid**-mediated transfection,
lipofection, red blood cell-mediated transfection, DNA
microinjection, the
laser method, and microprojectile-mediated gene transfer.

124 ANSWER 176 OF 184 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1991225107 CAPLUS

DOCUMENT NUMBER: 114-225107

TITLE: **Electroporation of lipid vesicles**
by inner electric fields

AUTHOR(S): Chiradzhev, Yu. A.; Pastushenko, V. I.

CORPORATE SOURCE: AN Trunikh Inst. Electrochem.,

Moscow, USSR

SOURCE: Charge Field Eff. Biosyst -2, [Proc. Int. Symp.]

(1989), 133-9 (Editors): Allen, Milton Joel; Cleary,

Stephen J.; Hawridge, Fred M. Plenum, New York, N.Y.

CODEN: 56AZAI

DOCUMENT TYPE: Conference

LANGUAGE: English

AB: **Electroporation of lipid** membranes by outer elec-
field has been studied in detail in plane bilayers bordering on
menisci.

Vesicle systems require other methods of anal., since they lack the
tension-providing menisci. Of significance in this case is also the
drop
of the elec. potential, caused by the increase in the pore size, esp. in
studies of the breakdown by the membrane potential. This paper
discusses
these problems.

124 ANSWER 157 OF 184 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1995849424 CAPLUS

DOCUMENT NUMBER: 123-250642

TITLE: Apparatus and method for efficient incorporation of
molecules into cells

INVENTOR(S): Korenstein, Raft; Rosenberg, Yosef; Zan-Bar,
Israel

PATENT ASSIGNEE(S): Ramot-University Authority for Applied
Research and

Industrial Development Ltd., Israel

SOURCE: PCT Int. Appl., 44 pp.

CODEN: PINXID2

DOCUMENT TYPE: Patent

LANGUAGE: English

COUNTRY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE

WO 952-211 AI 19950831 WO 1995-US2309 19950224
W: AM, AU, BB, BG, BR, BY, CA, CN, CZ, DE, FI, GE, HU, JP,
KR, KZ, LK, LT, LV, MD, MG, MN, MX, NO, NZ, PL,
RO, RU, SD,

SI, SK, TR, TW, UA, UZ, VN
RW: EE, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FR, GB,
GR, IE, IL,

LU, MC, NL, PT, SE, BE, BI, CT, CG, CL, CM, GA, GN, ME,
MR, NE,

SN, TD, TG

AU 9519307 AI 19950911 AU 1995-19307 19950224
EP 750663 AI 19970102 EP 1995-911912 19950224

R: DE, ES, FR, GB, H

PRIORITY APPLN. INFO.: II 1994-108775 19940225
WO 1995-US2309 19950224

AB: A method and app. for incorporating macromols. into membrane
vesicles.

cells or tissue by electroporation is presented. The method involves
the
steps of: (1) applying a train of low unipolar or alternating voltage
pulses to the macromols. and cells; (2) increasing the concn. of the
macromols. at the surface of the cells, and (3) allowing the
macromols. to

penetrate into the cytosol of the cells through the destabilized cell
membrane. The app. includes a support plate having apertures for
allowing
the electrodes to pass through it. Support tubes located within the
electrodes to pass through it. Support tubes located within the

apertures surround the electrodes. An elec. current-supplying mechanism connected to the electrode, supplies sufficient elec. current to a cell for facilitating the introduction of macromols. into the cell.

124 ANSWER 143 OF 184 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 1998139056 CAPLUS

TITLE: Detection of **electroporation** of **liposomes** by means of a fast electron transfer reaction.

AUTHOR(S): Correa, N; Mariano, Schelly, Z; V.

CORPORATE SOURCE: Center Colloid and Interfacial Dynamics, University

Texas, Arlington, TX, 76019-0005 USA

SOURCE: Book of Abstracts, 215th ACS National Meeting, Dallas,

March 29-April 2 (1998), C01-168 American

Chemical Society, Washington, D. C.

CODEN: 65Q1VA

DOCUMENT TYPE: Conference; Meeting Abstract

LANGUAGE: English

AB: **Electroporation** is a reversible transient pore formation in surfactant bilayers such as cell membranes, vesicles or **liposomes**, induced by a high-voltage elec. pulse applied to the suspension.

The applied field E elongates the time av. spherical shells and reorients the induced dipoles parallel to E . The evolution of the structural anisotropy can be monitored through the birefringence of the system. In addn., above threshold values of the field strength and pulse length, pore formation may occur in the polar regions of the ellipsoidal shells. To detect if and where pore formation occurs in the course of events, we used the electron transfer reaction $\text{Ir}(\text{IV}) + \text{Fe}(\text{II}) \rightleftharpoons \text{Ir}(\text{III}) + \text{Fe}(\text{III})$ as a probe - b; originally entrapping $\text{Fe}(\text{II})$ inside and placing $\text{Ir}(\text{IV})$ outside the liposomes. The reaction can only occur when pores are formed.

124 ANSWER 146 OF 184 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 1998329679 CAPLUS

DOCUMENT NUMBER: 129118293

TITLE: Improving the effectiveness of non-viral gene transfer methods

AUTHOR(S): Hui, Sek-Wen; Li, Lin-Hong; Ross, Patrick;
Stoicheva, Natalia; Zhao, Yali

CORPORATE SOURCE: Membrane Biophysics Laboratory,
Roswell Park Cancer Institute, Buffalo, NY, 14263, USA

SOURCE: Cellular & Molecular Biology Letters (1997),
2(Suppl.)

i. Biophysics of Membrane Transport, Pt. I, 97-110
CODEN: CMBLF; ISSN: 1425-8153

PUBLISHER: University of Wroclaw, Institute of
Biochemistry, Dep. of Genetic Biochemistry

DOCUMENT TYPE: Journal; General Review

LANGUAGE: English

AB: A review, with 15 refs., and discussion on the use of cationic **lipids** and **electroporation** in non-viral gene transfer methods for the purpose of improving gene delivery.

124 ANSWER 133 OF 184 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 1999144726 CAPLUS

DOCUMENT NUMBER: 130324880
TITLE: Optimization of Electroporation for Biochemical Experiments in Live Cells

AUTHOR(S): Meldrum, Rosalind A.; Bowi, Michael; Ong,
Swee Bee

Richardson, Simon
CORPORATE SOURCE: School of Biochemistry, University of Birmingham, Birmingham, B15 2TT, UK
SOI: RCT Biochemical and Biophysical Research Communications

(1999), 256(1), 235-239
CODEN: BBRCBA; ISSN: 0006-291X

PUBLISHER: Academic Press

DOCUMENT TYPE: Journal

LANGUAGE: English

AB: To introduce into cells small mols., which do not permeate the cell membrane naturally, electroporation is the fastest and most efficient technique. Although it is not completely benign, the speed at which a full population of cells can be permeated gives it a strong advantage over all other cell permeation techniques. Here we describe the potential damaging effects of electroporation and how to derive conditions which avoid these and assure its use for biochem. expts. in live cells. (c)

1999 Academic Press.

REFERENCE COUNT: 11 THERE ARE 11 CITED

REFERENCES AVAILABLE FOR THIS RECORD; ALL CITATIONS AVAILABLE IN THE REFORMAT

124 ANSWER 93 OF 184 MEDLINE

ACCESSION NUMBER: 89042117 MEDLINE

DOCUMENT NUMBER: 89042117 PubMed ID: 3186704

TITLE: Gene transfer from targeted **liposomes** to specific

lymphoid cells by **electroporation**.

AUTHOR: Machy P; Lewis E; McMillan L; Jonak Z I

CORPORATE SOURCE: Department of Cell Biology, Smith Kline & French Laboratories, King of Prussia, PA 19406-2799.

SOURCE: PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA, (1988 Nov) 85 (21) 8027-31.

Journal code: 7505876, ISSN: 0027-8424.
PUB. COUNTRY: United States

DOCUMENT TYPE: Journal; Article; JOURNAL ARTICLE

LANGUAGE: English

FILE SEGMENT: Priority Journals

ENTRY MONTH: 198812

ENTRY DATE: Entered STN: 19900308

Last Updated on STN: 19900308

Entered Medline: 19881209

AB: Large unilamellar **liposomes**, coated with protein A and encapsulating the gene that confers resistance to mycophenolic acid, were used as a model system to demonstrate gene transfer into specific lymphoid

cells. Protein A, which selectively recognizes mouse IgG2a antibodies, was

coupled to **liposomes** to target them specifically to defined cell types coated with IgG2a antibody. Protein A-coated **liposomes** bound human B lymphoblastoid cells preincubated with a mouse IgG2a

anti-HA monoclonal antibody but failed to adhere to cells challenged with

an irrelevant (anti-H-2) antibody of the same isotype or to cells incubated in the absence of antibody. Transfection of target cells bound

to protein A-coated **liposomes** was achieved by **electroporation**. This step was essential since only **electroporated** cells survived in a selective medium containing mycophenolic acid. Transfection efficiency with **electroporation** and targeted **liposomes** was as efficient as conventional procedures that used unencapsulated plasmids free in solution but, in the latter case, cell selectivity is not possible. This technique provides a methodology for introducing defined biological macromolecules into specific cell types.

124 ANSWER 87 OF 184 MEDLINE
 ACCESSION NUMBER: 91199726 MEDLINE
 DOCUMENT NUMBER: 91199726 PubMed ID: 2086036
 TITLE: Gene transfer methods for plants and cell cultures
 AUTHOR: Potrykus I
 CORPORATE SOURCE: Institute for Plant Sciences, Swiss Federal Institute of Technology (ETH), ETH-Zentrum, Zurich
 SOURCE: CIBA FOUNDATION SYMPOSIUM, (1990) 154:198-208; discussion 218-212, Ref. 33
 Journal code: 0356636, ISSN: 0300-5208.
 PUB. COUNTRY: Netherlands
 DOCUMENT TYPE: Journal Article; (JOURNAL ARTICLE); General Review; (REVIEW); Review, Tutorial
 LANGUAGE: English
 FILE SEGMENT: Priority Journals
 ENTRY MONTH: 199105
 ENTRY DATE: Entered STN: 19910607
 Last Updated on STN: 19910607
 Entered Medline: 19910621
 AB Agrobacterium-mediated gene transfer provides a routine and efficient gene transfer system for a variety of plant species. As this biological vector does not, however, function with important plant species, numerous alternative approaches have been studied. Of those, direct gene transfer into protoplasts, microinjection and biolistics have been demonstrated to be effective. Others, for example, viral vectors, agroinfection, liposome injection and electrophoresis may have special merits, although transgenic plants have not been produced by these techniques; et. From methods based on pollen transformation, the pollen tube pathway, pollen maturation, incubation of dry seeds, incubation of tissues, liposome fusion with tissues, macroinjection, laser treatment and electroporation of tissues no proof of integrative transformation is available, so far, and it is difficult to envisage how these approaches will ever produce transgenic cells and plants. We discuss (a) why Agrobacterium does not function with all plants, (b) what merits and disadvantages we see for the effective methods, (c) what possibilities we foresee for some of the other approaches, and (d) why we do not expect the remaining ones to be successful.

124 ANSWER 83 OF 184 MEDLINE
 ACCESSION NUMBER: 92089132 MEDLINE
 DOCUMENT NUMBER: 92089132 PubMed ID: 1661151
 TITLE: Increased binding of liposomes to cells by electric treatment
 AUTHOR: Chernomordik L V; Papahadjopoulos D; Tsong T Y
 CORPORATE SOURCE: Department of Biochemistry, University of Minnesota, St. Paul
 CONTRACT NUMBER: CA 35340 (NCI)
 GM 28117 (NCI-GMS)
 SOURCE: BIOCHIMICA ET BIOPHYSICA ACTA, (1991 Nov 18) 1070(1): 193-27.
 Journal code: 0217513, ISSN: 0006-2902
 PUB. COUNTRY: Netherlands
 DOCUMENT TYPE: Journal Article; (JOURNAL ARTICLE)
 LANGUAGE: English
 FILE SEGMENT: Priority Journals
 ENTRY MONTH: 199201
 ENTRY DATE: Entered STN: 19920216
 Last Updated on STN: 19970205
 Entered Medline: 19920129
 AB The influence of electric field treatments on the interaction of large

amphiphilic vesicles (**liposomes**) with animal cells was monitored by the fluorescence assay based on the use of the **liposomes** loaded by a dye 1-hydroxypyrene-1,3,6-trisulfonic acid (HPTS). It was shown that application of a short electric pulse (100 microseconds of 324 kV/cm) to the suspension of cells in presence of vesicles resulted in significant (more than 2 times) increase of the fluorescence associated with cells. The pH-sensitivity of the excitation spectrum of the dye and its interaction with the quencher were used to determine the nature of the phenomenon as the increase of the **liposome** binding onto the cell surface but not the consequence of a promotion of **liposome** uptake into the cells by endocytosis. The higher affinity for the **liposome** caused by the electric field has a lifetime of several minutes. The possible relation of the effect described to the **electroporation** of cell membranes and to macroscopic changes in membrane structure is discussed.

124 ANSWER 77 OF 184 MEDLINE
 ACCESSION NUMBER: 93365553 MEDLINE
 DOCUMENT NUMBER: 93365553 PubMed ID: 8359218
 TITLE: Induced endocytosis in human fibroblasts by electrical fields
 AUTHOR: Glogauer M; Lee W; McCalloch C A
 CORPORATE SOURCE: Faculty of Dentistry, University of Toronto, Ontario, Canada
 SOURCE: EXPERIMENTAL CELL RESEARCH, (1993 Sep 208) 123-40.
 Journal code: 0373226, ISSN: 0014-4827.
 PUB. COUNTRY: United States
 DOCUMENT TYPE: Journal Article; (JOURNAL ARTICLE)
 LANGUAGE: English
 FILE SEGMENT: Priority Journals
 ENTRY MONTH: 199309
 ENTRY DATE: Entered STN: 19931015
 Last Updated on STN: 19931015
 Entered Medline: 19930930
 AB **Electroporation** creates transient pores through which exogenous molecules can gain access to the cell cytoplasm. However, the electrical events associated with this phenomenon may perturb membrane-dependent events such as endocytosis. To measure the effect of **electroporation** on endocytosis, suspensions of human gingival fibroblasts were subjected to 5-ms electrical discharges, allowed to recover for variable periods of time, incubated with fluorescent probes, and then analyzed by flow cytometry. Incubation of **electroporated** fibroblasts with FITC-conjugated bovine serum albumin (BSA) to label moieties on cell membranes nonspecifically demonstrated a time-dependent increase of internalized probe for up to 90 min after **electroporation**. Pretreatment incubation of cells with cytochalasin D abrogated the increased internalization of FITC-BSA due to **electroporation**. Compared to controls, fluorescence signals due to internalization of surface glycoproteins with FITC-concanavalin A were 43% higher after **electroporation** and treatment with endoglycosidase F or H to reduce probe associated with surface membrane. Confocal microscopy confirmed intracellular labeling and reduction of membrane-associated probe by the enzyme. Assessment of nonspecific FITC-Con A labeling of cells by pretreatment with alpha-methyl-D-mannoside showed that labeling was largely (92%) specific. Compared to controls, **electroporation** induced a 60% increase of internalization of lucifer yellow, a fluid-phase endocytosis marker. Dual fluorescence

labeling of membrane phospholipids by FITC and TRITC-DHPI demonstrated an increased acidification after **electroporation** that was time dependent, indicating that **electroporation** induced more rapid entry of membrane **lipid** into endosomal compartments. These data demonstrate that the electrical fields used in **electroporation** of fibroblasts cause an actin-dependent increase in the internalization of all membrane components examined and an increased rate of probe entry into acidifying compartments.

124 ANSWER 22 OF 134 MEDLINE

ACCESSION NUMBER: 1990076316 MEDLINE

DOCUMENT NUMBER: 99076316 PubMed ID: 9359213

TITLE: Improved transfection efficiency of chicken gonadal primordial germ cells for the production of transgenic poultry.

AUTHOR: Hong Y H, Moon Y K, Jeong D E, Han J Y

CORPORATE SOURCE: Department of Animal Science and

Technology, College of

Agriculture and Life Sciences, Seoul National University, Suwon, Korea.

SOURCE: TRANSGENIC RESEARCH, 1998 Jul 7 (4) 247-52.

Journal code: 9209120; ISSN: 0962-8219

PUB. COUNTRY: ENGLAND; United Kingdom

DOCUMENT TYPE: Journal Article; JOURNAL ARTICLE

LANGUAGE: English

FILE SEGMENT: Priority Journals

ENTRY MONTH: 199901

ENTRY DATE: Entered STN: 19990202

Last Updated on STN: 19990202

Entered Medline: 19990119

AB **Electroporation** is a common method of DNA transfection for many types of eukaryotic cells, but has not been attempted in avian primordial germ cells (PGCs). DNA uptake in chicken primordial germ cells (PGCs) was tested using **electroporation** with and without dimethyl sulfoxide (DMSO). Gonadal tissue and chicken embryonic fibroblasts (CEF) were isolated from 6-day-old embryos (stage 29), transfected with pCMV beta carrying the bacterial lacZ gene, and cultured for 24 h. Gonadal primordial germ cells (gPGCs) were purified from culture using a Ficoll gradient. The addition of DMSO significantly increased the transfection efficiency of gPGCs but had no effect on chicken embryonic fibroblasts.

Electroporation of gPGCs resulted in an 80% transfection efficiency compared with about 17% observed with **liposomes**. Approximately 200 transfected gPGCs were injected into 2.5-day-old (stage 17) recipient embryos and the eggs were incubated for an additional 3.5 days, 7.5 days or to hatching. The exogenous gene was detectable in 100%, 67%, and 41% of the 6-day-old (stage 29), 10-day-old (stage 36) recipient embryos and hatched chicks gonads, respectively. PCR analysis of DNA from the hatched chicks showed that exogenous lacZ DNA was detected only in the gonad and not the liver and heart. These results indicated that **electroporation** is a suitable means of transfecting avian gPGCs for the goal of producing transgenic poultry.

IS

'IS' IS NOT A VALID FORMAT

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ANS

FILE 'HOME' ENTERED AT 15:05:39 ON 02 OCT 2002

FILE 'MEDLINE' BIOSIS, CAPES ENTERED AT 15:05:47 ON

02 OCT 2002

11 482 S MICROELECTRODE-MEDIATED CHROMOSOME

TRANSFER

12 11852 S ELECTROPORATION?

13 2 S 11 AND 12

14 2 DUP REM 13 (0 DUPLICATES REMOVED)

15 173 S ELECTROTRANSECT?

16 26 S TRANSECT AND ELECTRIC?

17 2095 S TRANSECT? AND PULSE

18 552069 S CHROMOSOME

19 41 S 17 AND 18

20 23 DUP REM 19 (18 DUPLICATES REMOVED)

21 13745 S 12 OR 15 OR 17

22 2 S 11 AND 11

23 0 S 12 NOT 13

24 775 S 18 AND 11

25 831822 S MICELLE OR LIPID OR LIPOSOME

26 13 S 14 AND 115

27 9 DUP REM 116 (4 DUPLICATES REMOVED)

28 825 S 11(S)15

29 11928 S 12 OR 15

30 477 S 15(S)19

31 280 DUP REM 120 (197 DUPLICATES REMOVED)

32 2737 S LARGL DNA

33 0 S 121 AND 122

34 184 S 121 NOT PY>1999

IS S facs or cell sort?

125 23471 FACS OR CELL SORT?

IS S 11 and 125

126 211 AND 125

IS dup rem 126

PROCESSING COMPLETED FOR 126

127 2 DUP REM 126 (0 DUPLICATES REMOVED)

IS diti sol-2

'SOL-2' IS NOT A VALID FORMAT FOR FILE 'CAPLUS'

The following are valid formats:

ABS ----- GI and AB

ALL ----- BIB, AB, IND, RE

APPS ----- AI, PRAI

BIB ----- AN, plus Bibliographic Data and PI table (default)

CAN ----- List of CA abstract numbers without answer numbers

CBIB ----- AN, plus Compressed Bibliographic Data

DATI ----- ALI, delimited (end of each field identified)

DMAX ----- MAX, delimited for post-processing

FAM ----- AN, PI and PRAI in table, plus Patent Family data

FBIB ----- AN, BIB, plus Patent FAM

IND ----- Indexing data

IPC ----- International Patent Classifications

MAX ----- ALI, plus Patent FAM, RE

PATS ----- PI, SO

SAM ----- CC, SX, TI, SU, II

SCAN ----- CC, SX, TI, SU, II (random display, no answer numbers)

SCAN must be entered on the same line as the DISPLAY, e.g., DSCAN or DISPLAY SCAN)

STD ----- BIB, IPC, and NCI

TABS ----- ABS indented with text labels

TAUT ATAU, indented with text labels
 IIBIB BIB, indented with text labels
 IMAX MAX, indented with text labels
 ISID SID, indented with text labels
 OBIB AN, plus Bibl graphic Data original
 OOBIB OBIB, indented with text labels

SBIB BIB, no citation
 SIBIB IBIIB, no citations

HII Fields containing hit terms
 HIIND IC, IC.A, IC.B, IC.C and index field (SI and ID) containing hit terms
 HITRN HIT RN and its text modification
 HITSTR HIT RN, its text modification, its CA index name, and its structure diagram
 HITSEQ HIT RN, its text modification, its CA index name, its structure diagram plus NTE and SEQ fields
 HITSTR First HIT RN, its text modification, its CA index name, and its structure diagram
 HITSEQ First HIT RN, its text modification, its CA index name, its structure diagram, plus NTE and SEQ fields
 KWIC Hit term plus 20 words on either side
 OCC Number of occurrence of hit term and field in which it occurs

To display a particular field or fields, enter the display field codes. For a list of the display field codes, enter HELP DISPLAYS at an arrow prompt (\rightarrow). Examples of formats include: TI; TI,AU; BIB;SI; TIIND; TISO. You may specify the format fields in any order and the information will be displayed in the same order as the format specification.

All of the formats (except for SAM, SCAN, HIT, HIIND, HITRN, HITSTR, HITSEQ, HITSEQ, KWIC, and OCC) may be used with DISPLAY ACC to view a specified Accession Number.
 ENTER DISPLAY FORMAT (BIB):end

\rightarrow d:ib:ab 1-2

127 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2002 ACS
 TI Detection and interpretation of mutations using animal cell hosts to express human genes present on a single copy of a human chromosome
 SO PCT Int. Appl., 149 pp.

CODEN: PIXND2

127 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2002 ACS
 TI Diagnosis, prognosis and treatment of cancer related to the Barx2 gene
 SO PCT Int. Appl., 190 pp.

CODEN: PIXND2

\rightarrow d:ib:ab 1-2

127 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 2002276207 CAPLUS
 DOCUMENT NUMBER: 136289914
 TITLE: Detection and interpretation of mutations using animal cell host to express human genes present on a single copy of a human chromosome
 INVENTOR(S): Beaudet, Arthur, Bodamer, Olaf, Killary, Ann, Lovell, Mercedes
 PATENT ASSIGNEE(S): Board of Regents, the University of Texas System, USA

SOURCE: PCT Int. Appl., 149 pp

CODEN: PIXND2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC NUM COUNT: 1

PATENT INFORMATION

PATENT NO.	KIND DATE	APPLICATION NO.	DATE
WO 2002029107	A2 20020411	WO 2001-US30962	20011002
	W, AF, AG, AL, AM, AI, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HF, HE, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PR, RO, RU, SD, SE, SG, SI, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM		
	RW, GH, GM, KE, LS, MW, MZ, SD, SI, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DE, ES, EL, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BE, RI, CF, CG, CL, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG		

US 2002137067 A1 20020926 US 2001-969861 20011002

PRIORITY APPN. INFO.: US 2000-237471P P 20001002

AB: The present invention relates to a method for detection and interpretation

of loss-of-function or gain-of-function mutations for test genes of interest. The genes of interest include those assoced. with inherited genetic disorders. The method involves testing for gene function by transferring single copies of individual human chromosomes into a suitable

host cell. Human cells are obtained from peripheral blood. Transfer is

preferably by **microcell-mediated chromosome transfer**. Transfer is screened for anal. of expression of a marker gene closely linked to the gene of interest. Guidelines for the selection of host cells and marker genes that can be used to detect transfer are described. The preferred markers are cell surface proteins

such as ICAM-1 that can be easily assayed or used for fluorescence activated **cell sorting**. The method is demonstrated by detection of a mutation in the human LDL receptor gene on chromosome 10 using CHO cells as a host.

127 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 2000900847 CAPLUS
 DOCUMENT NUMBER: 13469875
 TITLE: Diagnosis, prognosis and treatment of cancer related to the Barx2 gene

INVENTOR(S): Nelkin, Barry David; Gabra, Hani; Sellar, Grant Clark;

Watson, Janet Elizabeth Vivienne; Porteous, David John
 PATENT ASSIGNEE(S): Imperial Cancer Research Technology Limited, UK; Johns

Hopkins University

SOURCE: PCT Int. Appl., 190 pp.

CODEN: PIXND2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC NUM COUNT: 1

PATENT INFORMATION

PATENT NO.	KIND DATE	APPLICATION NO.	DATE
WO 2000077252	A1 20001221	WO 2000-GB2328	20000615

W, AL, AG, AL, AM, AL, AL, AZ, BA, BB, BG, BR, BY, CA,
CH, CN, CR,
CU, CZ, DE, DK, DM, DZ, ES, EG, GB, GD, GE, GH, GM,
HR, HU,
ID, IE, IN, IS, JP, ET, KG, EP, KR, KZ, LC, LR, LS, LT,
LU,
TA, MA, MD, MG, MK, MP, MW, MN, MZ, NO, NZ, PE, PL,
RO, RU, SD,
SE, SG, SL, SK, SI, TT, TM, TH, TL, TZ, UA, UG, US, UZ,
VN, YU,
ZA, ZW, AM, AZ, BY, EG, KZ, MD, RU, TT, TM
RW, GH, GM, KR, IS, MW, MZ, SD, SE, SZ, TZ, UG, ZW, AL,
BE, CH, CY,
DE, DK, ES, ET, FR, GB, GR, HU, IT, MC, NL, PL, SE, BE,
BL,
CL, CG, CL, CM, GA, GN, GW, ME, MR, NL, SN, TD, TG
EP 1183392 A1 20020306 EP 2000942186 20000615
R, AL, BL, CH, DE, DK, ES, FR, GB, GR, HU, IT, NL, SE,
MC, PL,
IE, SE, TT, LV, FI, RO
PRIORITY APPN. INFO: US 1999-139320P P 19990615
GB 2000-5466 A 20000308
WO 2000 GB2328 W 20000615

AB: It has been found that the Barx2 gene is mutated in ovarian cancer.
The invention provides methods of diagnosis, prognosis and treatment of cancer related to the Barx2 gene by obtaining a sample contg. nucleic acid from the patient and hybridizing it w/ a nucleic acid specific to the Barx2 gene, or a mutant allele thereof.

REFERENCE COUNT: 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE REFORMAT

--> 8 yac? or mae?
128 1447377 YAC OR MAC?

--> s artificial chromosome
129 9621 ARTIFICIAL CHROMOSOME

--> d his

FILE HOME ENTERED AT 15:05:39 ON 02 OCT 2002
FILE 'MEDLINE, BIOSIS, CAPLUS' ENTERED AT 15:05:47 ON 02 OCT 2002
14 482 S MICROCELL-MEDIATED CHROMOSOME
TRANSFER
12 11852 S ELECTROPORAT?
13 2 S LI AND L2
14 2 DUP REM 13 (0 DUPLICATES REMOVED)
15 173 S ELECTROTRANSFECT?
16 26 S TRANSFECT AND ELECTRIC?
17 2095 S TRANSFECT AND PULSE
18 552069 S CHROMOSOME
19 41 S 17 AND L8
140 2 DUP REM 19 (18 DUPLICATES REMOVED)
111 13745 S 12 OR L5 OR L7
112 2 S LI AND L1
113 6 S 12 NO L13
114 775 S 18 AND L10
115 831822 S MICROCELL OR LIPID OR LIPOSOME
116 13 S 14 AND L15
117 9 DUP REM 116 (4 DUPLICATES REMOVED)
118 825 S 110 S 15
119 13928 S 12 OR L5
120 477 S 15 S 19
121 280 DUP REM 120 (197 DUPLICATES REMOVED)
122 2737 S 1491 DNA
123 9 S 121 AND L22
124 184 S 121 NO L PY -1999

125 22473 S LACS OR CELL SORT?
126 2 S LI AND L25
127 2 DUP REM 126 (0 DUPLICATES REMOVED)
128 1447377 S YAC2 OR MAC?
129 9621 S ARTIFICIAL CHROMOSOME

--> 125 and 129
130 17 125 AND 129

--> dup item 130
PROCESSING COMPLETED FOR 130
131 12 DUP REM 130 (5 DUPLICATES REMOVED)
--> d hisc 1-12

131 ANSWER 1 OF 12 CAPLUS COPYRIGHT 2002 ACS
11 Collections of transgenic animal lines in which a subset of cells characterized by expression of an endogenous "characterizing" gene and
and
uses
SO PCT Int. Appl., 170 pp.
CODEN: PIXND2

131 ANSWER 2 OF 12 CAPLUS COPYRIGHT 2002 ACS
11 Genetically engineered reporter system expressing fluorescent protein for
rapid detection of cell surface receptor-ligand binding and uses in
high-throughput screening assays
SO PCT Int. Appl., 66 pp.
CODEN: PIXND2

131 ANSWER 3 OF 12 MEDLINE
11 Development of a transgenic green fluorescent protein lineage marker for
steroidogenic factor 1.
SO MOLECULAR ENDOCRINOLOGY, (2002 Oct) 16 (10) 2360-70.
Journal code: 8801431, ISSN: 0888-8809.

131 ANSWER 4 OF 12 MEDLINE DUPLICATE 1
11 Retrofitting of a satellite repeat DNA-based murine **artificial chromosome** (ACes) to contain loxP recombination sites.
SO GENE THERAPY, (2002 Jun) 9 (11) 719-23.
Journal code: 9421525, ISSN: 0969-7123.

131 ANSWER 5 OF 12 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
11 Hybridization to high-density filter arrays of a Brugia malayi BAC library
with biotinylated oligonucleotides and PCR products.
SO Biotechniques, (June, 2001) Vol. 30, No. 6, pp. 1216-1224, print.
ISSN: 0736-6205.

131 ANSWER 6 OF 12 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.DUPLICATE
2
11 Membrane cofactor protein (MCP; CD46) expression in transgenic mice.
SO Clinical and Experimental Immunology, (May, 2001) Vol. 124, No. 2, pp.
180-189, print.
ISSN: 0099-9104.

131 ANSWER 7 OF 12 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
11 A flow cytometry technique for measuring chromosome-mediated gene transfer.
SO Cytometry, (June 1, 2001) Vol. 44, No. 2, pp. 100-105, print.
ISSN: 0196-4763.

131 ANSWER 8 OF 12 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
11 A human CD34 PAC clone targets an earlier hematopoietic cell than the

endogenous murine CD14 gene in transgenic mice.
SO: Blood, (November 16, 2000) Vol. 96, No. 11 Part 1, pp. 821a
pmm
Meeting Info: 42nd Annual Meeting of the American Society of
Hematology
San Francisco, California, USA December 01-05, 2000 American
Society of
Hematology
ISSN: 0006-4971.

131 ANSWER 9 OF 12 MEDLINE DUPLICATES

11 A method to diagnose chromosome and plasmid loss in

Saccharomyces

cerevisiae strains

SO: YEAST, (1999 Jul 15) 16(3):1009-19

Journal code: 3607637 ISSN: 0749-503X

131 ANSWER 10 OF 12 CAPLUS COPYRIGHT 2002 ACS

11 High-throughput screening for novel enzymes by co-encapsulation

and

fluorescence activated **cell sorting** in genome

expression libraries

SO: PCR Int Appl., 95 pp.

CODEN: PMXD2

131 ANSWER 11 OF 12 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.

11 Modification of bacterial **artificial chromosome** clones

using Cre recombinase: Introduction of selectable markers for expression

in eukaryotic cells.

SO: Genome Research, (April, 1998) Vol. 8, No. 4, pp. 404-412.
ISSN: 1083-9051.

131 ANSWER 12 OF 12 CAPLUS COPYRIGHT 2002 ACS

11 Human genome analysis using chromosome sorting

SO: Tanpakushitsu Kalusan Koso (1993), 38(3), 268-77

CODEN: TAKKAI ISSN: 0039-9450

-> Pow g; tomet?

132 131727 FLOW CYTOMETER?

-> d his

FILE: HOME/ENTERED AT 15:05:39 ON 02 OCT 2002

FILE:MEDLINE; BIOSIS; CAPLUS ENTERED AT 15:05:47 ON

02 OCT 2002

11 482 S MICROCHEL-MEDIATED CHROMOSOME TRANSFER

12 1482 S 111 C TROPORAT?

13 2 S11 AND 12

14 2 DUP REM 13 (0 DUPLICATES REMOVED)

15 173 S ELECTROTRANSFECT?

16 26 S TRANSFECT AND ELECTRIC?

17 2695 S TRANSFECT? AND PULSE

18 552069 S CHROMOSOME

19 41 S 17 AND 18

110 23 DUP REM 19 (0 DUPLICATES REMOVED)

111 6745 S 12 OR 15 OR 17

112 2 S111 AND 11

113 0 S112 NO 113

114 773 S 18 AND 111

115 8,1822 S MICROCHEL OR LIPID OR LIPOSOME

116 13 S 14 AND 115

117 9 DUP REM 116 (4 DUPLICATES REMOVED)

118 825 S 111 S 15

119 11928 S 12 OR 15

120 477 S 15 S 19

121 280 DUP REM 120 (97 DUPLICATES REMOVED)

122 2717 S LARGE DNA

123 0 S 121 AND 122

124 184 S 121 NO 1 PY -1999

125 2347 S 14 S OR CELL SORT?

126 2 S11 AND 125

127 2 DUP REM 126 (0 DUPLICATES REMOVED)

128 1447377 S 14 S OR MAC?

129 9621 S AP HEGM AL CHROMOSOME

130 17 S 125 AND 129

131 12 DUP REM 130 (5 DUPLICATES REMOVED)

132 131727 S 111 FLOW CYTOMETER?

-> 129 and 122

133 46129 AND 132

-> dup rem 133

PROCESSING COMPLETED FOR 133

134 29 DUP REM 133 (17 DUPLICATES REMOVED)

-> 134 not 131

135 281342 NO 131

-> dit so 1-28

135 ANSWER 1 OF 28 MEDLINE

11 Rescue of the lethal self-^{-/-} phenotype by the human SCL locus.

SO: BLOOD, (2002 Jun 1) 99 (11):3931-8.

Journal code: 7603509, ISSN: 0006-4971.

135 ANSWER 2 OF 28 MEDLINE

11 Differential regulation of the human and murine CD34 genes in hematopoietic stem cells.

SO: PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA, (2002 Apr 30) 99 (9):6246-51.

Journal code: 7505876, ISSN: 0027-8424.

135 ANSWER 3 OF 28 MEDLINE

11 Expression of a reporter gene after microinjection of mammalian **artificial chromosomes** into pronuclei of bovine zygotes.

SO: MOLECULAR REPRODUCTION AND DEVELOPMENT, (2001 Dec) 60 (4):433-8.

Journal code: 3903333, ISSN: 1040-452X.

135 ANSWER 4 OF 28 MEDLINE

11 Efficient in-vitro transfer of a 60-Mb mammalian **artificial chromosome** into murine and hamster cells using cationic lipids and dendrimers.

SO: CHROMOSOME RESEARCH, (2001) 9 (6):475-85.

Journal code: 9313452, ISSN: 0967-3849.

135 ANSWER 5 OF 28 MEDLINE

11 Specific cytogenetic labeling of bovine spermatozoa bearing X or Y chromosomes using fluorescent in situ hybridization (FISH).

SO: Genet Sel Evol, (2001 Jan-Feb) 33 (1):89-98.

Journal code: 9114088, ISSN: 0999-193X.

135 ANSWER 6 OF 28 MEDLINE

11 6p abnormalities and TNF-alpha over-expression in retinoblastoma cell line.

SO: CANCER GENETICS AND CYTOGENETICS, (2001 Jul 15) 128 (2):141-7.

Journal code: 7909240, ISSN: 0165-4608.

135 ANSWER 7 OF 28 MEDLINE

11 A **flow cytometry** technique for measuring chromosome-mediated gene transfer.

SO: CYTOOMETRY, (2001 Jun 1) 44 (2):100-5.

Journal code: 8102328, ISSN: 0196-4733.

135 ANSWER 8 OF 28 MEDLINE

11 Satellite DNA-based **artificial chromosomes**--chromosomal vectors.

SO: TRENDS IN BIOTECHNOLOGY, (2000 Oct) 18 (10):402-3.

Journal code: 8310903, ISSN: 0167-7799.

135. ANSWER 9 OF 28 - MEDLINE

II: Generation of transgenic mice and germline transmission of a mammalian
chromosome introduced into embryos by pronuclear microinjection.

SO: CHROMOSOME RESEARCH, (2000) 8 (3) 183-91
Journal code: 93L452, ISSN: 0967-5849.

135. ANSWER 10 OF 28 - MEDLINE

II: Mammalian **artificial chromosome** pilot production facilitating large-scale isolation of functional satellite DNA-based **artificial chromosomes**.

SO: CYTOLOGY, (1999) Oct 1; 15 (2) 129-32
Journal code: 8192328, ISSN: 0 964763

135. ANSWER 11 OF 28 - MEDLINE

II: B-cell tumor genes in mice carrying a yeast **artificial chromosome**-based immunoglobulin heavy-chain translocus is independent of the heavy chain intron enhancer element.

SO: CANCER RESEARCH, (1999) Nov 1; 59 (21) 5625-8.
Journal code: 2984705R, ISSN: 0008-5472.

135. ANSWER 12 OF 28 - MEDLINE

II: A human immunoglobulin lambda locus is similarly well expressed in mice and humans.

SO: JOURNAL OF EXPERIMENTAL MEDICINE, (1999) May 17; 189 (10) 161-29
Journal code: 2985409R, ISSN: 0022-1007.

135. ANSWER 13 OF 28 - MEDLINE

II: Long-term stability of large desert genomic DNA episomal shuttle vectors in human cells.

SO: NUCLEAR ACIDS RESEARCH, (1999) Apr 1; 27 (7) 1674-82.
Journal code: 0411011, ISSN: 0305-1048.

135. ANSWER 14 OF 28 - MEDLINE

II: CD163, a novel sialomucin on CD34(+)- and erythroid subsets, is located on human chromosome 6q21.

SO: BLOOD, (1998) Aug 1; 92 (3) 849-66.
Journal code: 7602509, ISSN: 0006-4971.

135. ANSWER 15 OF 28 - MEDLINE

II: The Beige Chediak-Higashi syndrome gene encodes a widely expressed cytosolic protein.

SO: JOURNAL OF BIOLOGICAL CHEMISTRY, (1997) Nov 21; 272 (47) 29790-4.
Journal code: 298521F, ISSN: 0021-9258.

135. ANSWER 16 OF 28 - MEDLINE

II: A yeast **artificial chromosome** (YAC) containing encompassing the critical region of the X-linked lymphoproliferative disease (XLP) locus.

SO: GENOMICS, (1997) Jan 1; 19 (1) 55-65.
Journal code: 8800135, ISSN: 0888-7547.

135. ANSWER 17 OF 28 - MEDLINE

II: Large DNA fragment sizing by **flow cytometry**: application to the characterization of P1 **artificial chromosome** (PAC) clones.

SO: NUCLEAR ACIDS RESEARCH, (1996) Nov 1; 24 (21) 4202-9.
Journal code: 0411011, ISSN: 0305-1048.

135. ANSWER 18 OF 28 - MEDLINE

II: Characterization of a human chromosome 22 enriched bacterial **artificial chromosome** sublibrary.

SO: GENETIC ANALYSIS, (1995) Oct 12 (2) 73-9.
Journal code: 950940.

135. ANSWER 19 OF 28 - MEDLINE

II: Introduction of YACs containing a patable eukaryotic replication

origin

into mammalian cells can generate structures that replicate autonomously.

SO: SOMATIC CELL AND MOLECULAR GENETICS, (1993) Mar 19 (2) 171-92.

Journal code: 8403568, ISSN: 0740-7750.

135. ANSWER 20 OF 28 - MEDLINE

II: Low-frequency chimeric yeast **artificial chromosome** libraries from flow-sorted human chromosomes 16 and 21.

SO: PROCEEDINGS OF THE NATIONAL ACADEMY OF

SCIENCES OF THE UNITED STATES OF

AMERICA, (1997) Feb 1; 90 (2) 1063-7.

Journal code: 7505876, ISSN: 0027-8424.

135. ANSWER 21 OF 28 - BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.

II: Human dendritic cells can be effectively transduced by new generation helper virus-free herpes simplex amplicon vectors.

SO: Blood (November 16, 2001) Vol. 98, No. 11 Part 1, pp. 423a.

http://www.bloodjournal.org/print.

Meeting Info: 43rd Annual Meeting of the American Society of Hematology.,

Part 1, Orlando, Florida, USA December 07-11, 2001

ISSN: 0006-4971.

135. ANSWER 22 OF 28 - BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.

II: Response from Brown.

SO: Trends in Biotechnology, (October, 2000) Vol. 18, No. 10, pp. 403.

print.

ISSN: 0167-7799.

135. ANSWER 23 OF 28 - BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.

II: Molecular analysis of chromosome 6p rearrangement in retinoblastoma.

SO: Genetics in Medicine, (January February, 2000) Vol. 2, No. 1, pp. 105.

print.

Meeting Info: Annual Clinical Genetics Meeting Palm Springs, California,

USA March 09-12, 2000 American College of Medical Genetics

ISSN: 1098-3600.

135. ANSWER 24 OF 28 - BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.

II: Human satellite DNA-based **artificial chromosomes**.

SO: European Journal of Human Genetics, (June, 2000) Vol. 8 , No.

Supplement

, pp. 40, print.

Meeting Info: European Human Genetics Conference 2000

Amsterdam,

Netherlands May 27-February 30, 2000 European Society of Human Genetics

ISSN: 1018-4813.

135. ANSWER 25 OF 28 - BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.

II: All that FISH can do for you.

SO: M-S (Medecine Sciences), (Nov., 1997) Vol. 13, No. 11, pp. 1294-

1295.

ISSN: 0767-0974.

135. ANSWER 26 OF 28 - BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.

II: Chromosomal genetics and molecular genetics: A successful hybridization.

SO: M-S (Medecine Sciences), (Nov., 1997) Vol. 13, No. 11, pp. 1237-

1238.

ISSN: 0767-0974.

135. ANSWER 27 OF 28 - CAPLUS COPYRIGHT 2002 ACS

II: Chromosomal and molecular genetic analysis of human

11. Characterization and sequence study of the immature genome in the marine chordate *Oreocnema diocia*

SO: Science (Washington, DC, United States) (2001), 294(5551), 2506
CODEN: SCIEAS, ISSN: 0036-8075

135. ANSWER 25 OF 28: CAPTUS. COPYRIGHT 2002 ACS

11. Methods and nucleic acid probe compositions for chromosome-specific staining and their uses, including detection of genetic rearrangement

10. chronic myelogenous leukemia
SO: Can. Pat. Appl., 159 pp
CODEN: CPNNEB

<db>b>25,24,20,19,11,10,7

135. ANSWER 25 OF 28: BIOSIS. COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.

ACCESSION NUMBER: 199832647 BIOSIS

DOCUMENT NUMBER: PREV/998000,2647

TITLE: All that FISH can do for you.

AUTHOR(S): Gilgantantz, Simone (1); Schrock, Evelyn; Liyanage,

Marc J; Du Manoir, Stan; Ried, Thomas

CORPORATE SOURCE: (1) 9 rue Basse, 54330 Clermont-Ferrand

France

SOURCE: M-S (Medecine Sciences), (Nov., 1997) Vol. 13, No. 11, pp

1294-1298.

ISSN: 0767-0974.

DOCUMENT TYPE: Article

LANGUAGE: French

135. ANSWER 24 OF 28: BIOSIS. COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.

ACCESSION NUMBER: 2000269788 BIOSIS

DOCUMENT NUMBER: PRUV200000369788

TITLE: Human satellite DNA-based artificial chromosomes.

AUTHOR(S): Csonka, Erika (1); Cserpan, I. (1); Lodor, K. (1); Holló,

(1); Katona, R. (1); Keresz, J. (1); Praznovszky, T. (1); Szakal, B. (1); Telenius, A.; de Jong, G.; Udvárdy, A.; Hadlaiék, Gy. (1)

CORPORATE SOURCE: (1) Institute of Genetics, BRC, Szeged Hungary

SOURCE: European Journal of Human Genetics, (June, 2000) Vol. 8

No. Supplement 1, pp. 40, print.

Meeting Info: European Human Genetics Conference 2000 Amsterdam, Netherlands May 27-February 30, 2000

European

Society of Human Genetics
ISSN: 1018-4813.

DOCUMENT TYPE: Conference

LANGUAGE: English

SUMMARY LANGUAGE: English

135. ANSWER 20 OF 28: MEDLINE

ACCESSION NUMBER: 93157343 MEDLINE

DOCUMENT NUMBER: 93157343 PubMed ID: 8430075

TITLE: Low-frequency chimeric yeast artificial chromosome libraries from flow-sorted human chromosomes 16 and 21.

AUTHOR: McCormick, M. K.; Campbell, E.; Deaven, L.; Moyzis, R. K.

CORPORATE SOURCE: Life Sciences Division, University of California, MS80 Los

Alamos National Laboratory, NM 87544

SOURCE: PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA, (1993 Feb 1) 90 (3): 1063-7

Journal code: 2505876 ISSN: 0027-8424

PUB COUNTRY: United States

DOCUMENT TYPE: Journal Article; JOURNAL ARTICLE

LANGUAGE: English

FILE SEGMENT: Priority Journals

ENTRY MONTH: 199303

ENTRY DATE: Entered STN: 19930126

Last Updated on STN: 19930326

Entered Medline: 19930305

AB: Construction of chromosome-specific yeast **artificial**

chromosome (YAC) libraries from sorted chromosomes was

undertaken

(1) to eliminate drawbacks associated with first-generation total genomic YAC libraries, such as the high frequency of chimeric YAC's, and (2)

(2) provide an alternative method for generating chromosome-specific YAC

libraries in addition to isolating such collections from a total genomic library. Chromosome-specific YAC libraries highly enriched for human

chromosomes 16 and 21 were constructed. By maximizing the percentage of fragments with two ligatable ends and performing yeast transformations

with less than saturating amounts of DNA in the presence of carrier DNA,

YAC libraries with a low percentage of chimeric clones were obtained. The

smaller number of YAC clones in these chromosome-specific libraries

reduces the effort involved in PCR-based screening and allows hybridization methods to be a manageable screening approach.

135. ANSWER 19 OF 28: MEDLINE

ACCESSION NUMBER: 93289448 MEDLINE

DOCUMENT NUMBER: 93289448 PubMed ID: 8511674

TITLE: Introduction of YAC's containing a putative mammalian replication origin into mammalian cells can generate structures that replicate autonomously.

AUTHOR: Nonet, G. H.; Wahl, G. M.

CORPORATE SOURCE: Gene Expression Laboratory, Salk Institute for Biological Studies, La Jolla, California 92037.

CONTRACT NUMBER: GM27754 (NIGMS)

NCI CA48205 (NCI)

SOURCE: SOMATIC CELL AND MOLECULAR GENETICS, (1993 Mar) 19 (2):

171-92.

Journal code: 8403568, ISSN: 0740-7750.

PUB COUNTRY: United States

DOCUMENT TYPE: Journal Article; JOURNAL ARTICLE

LANGUAGE: English

FILE SEGMENT: Priority Journals

ENTRY MONTH: 199307

ENTRY DATE: Entered STN: 19930723

Last Updated on STN: 19930723

Entered Medline: 19930709

AB: Yeast **artificial chromosomes** (YACs) containing or lacking a biochemically defined DNA replication origin were transferred

from yeast to mammalian cells in order to determine whether origin-dependent autonomous replication would occur. A specialized YAC

vector was designed to enable selection for YACs in mammalian cells and for monitoring YAC abundance in individual mammalian cells. All of

eight clones made with linear and circularized YACs lacking the origin and seven

clones made with linear and circularized YACs containing the origin region contained single copies of the transfected YAC, along with

various amounts of yeast DNA integrated into single but different

chromosomal sites. By contrast, two transformants derived from circularized YACs containing the putative replication origin showed very heterogeneous YAC copy number and numerous integration sites when analyzed after many generations of in vitro propagation. Analysis of both clones at an early time after fusion revealed variously sized extrachromosomal YAC yeast structures reminiscent of the extrachromosomal elements found in some cells harboring amplified genes. The data are consistent with the interpretation that YACs containing a biochemically defined origin of replication can initially replicate autonomously, followed by integration into multiple chromosomal locations, as has been reported to occur in many examples of gene amplification in mammalian cells.

135. ANSWER 10 OF 28 MEDLINE

ACCESSION NUMBER: 2000019472 MEDLINE

DOCUMENT NUMBER: 20019472 PubMed ID: 10554044

TITLE: B-cell tumorigenesis in mice carrying a yeast artificial chromosome-based immunoglobulin heavy c-myc translocus is independent of the

heavy chain intron enhancer (I mu).

AUTHORS: Palomo C; Zou X; Nicholson EC; Butler CJ;

Bruggemann M

CORPORATE SOURCE: Laboratory of Developmental Immunology, The Babraham Institute, Cambridge, United Kingdom.

SOURCE: CANCER RESEARCH (1999 Nov 1) 59 (21) 5625-8.

Journal code: 2984705R ISSN: 0008-5472.

PUB. COUNTRY: United States

DOCUMENT TYPE: Journal Article (JOURNAL ARTICLE)

LANGUAGE: English

FILE SEGMENT: Priority Journals

ENTRY MONTH: 199912

ENTRY DATE: Entered STN: 20000113

Last Updated on STN: 20000113
Entered Medline: 19991130

135. ANSWER 10 OF 28 MEDLINE

ACCESSION NUMBER: 2000019596 MEDLINE

DOCUMENT NUMBER: 20019596 PubMed ID: 10554168

TITLE: Mammalian artificial chromosome pilot production facility: large scale isolation of functional satellite DNA-based artificial chromosomes.

AUTHOR: delong G; Cleatus AH; Telemus H; Perez CE;
Drayer JL;

Hadaczky G

CORPORATE SOURCE: Chromos Molecular Systems, Inc., Vancouver, British Columbia, Canada. gdejong@chromos.com

SOURCE: CYTOMETRY (1999 Feb 1) 35 (2) 129-33.
Journal code: 8102328 ISSN: 0196-4763.

PUB. COUNTRY: United States

DOCUMENT TYPE: Journal Article (JOURNAL ARTICLE)

LANGUAGE: English

FILE SEGMENT: Priority Journals

ENTRY MONTH: 199911

ENTRY DATE: Entered STN: 20000113

Last Updated on STN: 20000113

Entered Medline: 19991130

ABSTRACT: BACKGROUND: A pilot production facility has been established to isolate

mammalian artificial chromosomes at high purity by using flow cytometric techniques. Dicentric chromosomes have been generated by the targeted amplification of pericentric heterochromatic and centromeric DNA by activating the "megareplicator." Breakage of these dicentric chromosomes generates

satellite DNA-based artificial chromosomes (SATAC) from 60 to 400 megabases. METHODS: For large-scale production, we have

developed cell lines capable of carrying one or two SATACs. A SATAC,

because of a high adenine-thymine (AT) composition, is easily identified

and sorted by using chromomycin A3 and Hoechst 33258 stains and a dual

laser high-speed flow cytometer. A prototype SATAC (60 megabases) has been

characterized. The prototype SATAC has been isolated from an original

rodent-human hybrid cell line and transferred by using modified microcell

fusion into a CHO production cell line. RESULTS: Metaphase chromosomes

from this production cell line were isolated in a modified polyamine buffer, stained, and sorted by using a modified sheath buffer that maintains condensed chromosomes. SATACs are routinely sorted at rates

greater than 1 million per hour. Sorted SATACs have been transferred to a

variety of cells by using microcell fusion technology and were found to be

functional. CONCLUSIONS: By developing new SATAC-containing cell lines

with fewer numbers of chromosomes in conjunction with operating a high

speed flow sorter we have effectively generated an efficient production

facility geared purely for the isolation of SATACs.

135. ANSWER 7 OF 28 MEDLINE

ACCESSION NUMBER: 2001297137 MEDLINE

DOCUMENT NUMBER: 21272265 PubMed ID: 11378859

TITLE: A flow cytometry technique for

the joining segments and switch mu is deleted. This demonstrates that as yet unidentified regulatory elements in the IgH locus, independent from the known enhancers, are sufficient to cause B-cell specific activation of c-myc after translocation. The phenotype of tumors from IgH c-myc YAC transgenic mice with or without I mu (B220⁺, IgM⁺, IgD⁺) is reminiscent of Burkitt's lymphoma. A rapidly expanding abnormal B-cell population is present at birth and accumulates in bone marrow, periphery, and spleen, well before discrete tumor establishment. Molecular analysis identified a clonal origin, with rearrangement of one mouse heavy chain allele retained in tumor cells from different sites, whereas subsequent rearrangements of

measuring chromosome-mediated gene transfer

AUTHOR Vanderby S, MacDonald N, de Jong G

CORPORATE SOURCE Chromos Molecular Systems, Inc., Burnaby, British Columbia, Canada

SOURCE CYTOMETRY, 2001 Jun 1;44(2):100-5
Journal code: 8102328 ISSN: 0196-4763

PUB COUNTRY United States

DOCUMENT TYPE Journal Article (JOURNAL ARTICLE)

LANGUAGE English

THE DOCUMENT Priority Journals

ENTRY MONTH 200109

ENTRY DATE Entered SIN: 20011001
Last Updated on SIN: 20011001
Entered Medline: 20010927

ABSTRACT Using **artificial chromosome** expression systems (ACes), we have developed a unique and rapid screening technique to quantify delivery of foreign DNA into cells *in vitro*. Delivery was measured within 24 h after transfection, using **flow cytometry** to detect the transfer of ACes labeled with thymidine analogue. This technique can be used to optimize delivery parameters of ACes and heterologous DNA into cells and eventually tissue.

METHOD Chinese hamster ovary (CHO) cells carrying **artificial chromosomes** were grown in media supplemented with thiodeoxyuridine (TdUrd). The 60-mb **artificial chromosome** was purified by **flow cytometry** sorting and transfected into Chinese hamster lung fibroblast cells (V79-4) or mouse connective tissue cells [LMtk(-)] using LipofectAMINE 2000(trade mark, a cationic lipid, and Superfect(trade mark, a cationic dendrimer). The cells were incubated with an FITC-conjugated anti-bromodeoxyuridine (BrdUrd) antibody and analyzed by **flow cytometry**. IdUrd-incorporated **artificial chromosome** expressing green fluorescent protein (GFP) was transected into V79-4 cells. Delivery was measured at 24 h and GFP expression was detected at 48 h. RESULTS: The delivery of intact **artificial chromosomes** into V79-4 and LMtk- cells was detected within 2 h and up to 48 h post-transfection. Maximum delivery rates of 20% and 14% were observed using LipofectAMINE 2000 and Superfect respectively. **Flow cytometry** data correlated with microscopic observations. IdUrd incorporation resulted in less quenching after staining with Hoechst 33258 and chromomycin A3 than BrdUrd incorporation. The fluorescence intensity of the FITC-conjugated anti-BrdUrd antibody was greater with IdUrd-incorporated chromosomes than with BrdUrd-incorporated chromosomes. CONCLUSION: The results indicate that IdUrd-labeled **artificial chromosomes** can be detected 24 h after transfection. This efficient, sensitive, high-throughput detection technique is being used to evaluate and optimize other transfer technologies (e.g., electroporation and sonoporation), different delivery reagents, and protocols in a variety of cells *in vitro*. This work represents the first step in utilizing **artificial chromosomes** as nonviral vectors for gene therapy.

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D HIS

FILE 'HOME' ENTERED AT 15:05:39 ON 02 OCT 2002

FILE 'MEDLINE, BIOSIS, CAPLUS' ENTERED AT 15:05:47 ON 02 OCT 2002

11 482 SMICROCELL MEDIALIZED CHROMOSOME TRANSFER?

12 11852 SECT CROPORAT?

13 2811 AND 12

14 2 DUP REM 13 (0 DUPLICATES REMOVED)

15 173 SECT ECTROTRANSFECT?

16 268 TRANSFECT AND ELECTRIC?

17 2095 SE TRANSFECT AND PEST?

18 582069 S CHROMOSOME

19 41 S17 AND 18

20 23 DUP REM 19-18 DUPLICATES REMOVED)

21 13745 S12 OR 15 OR 17

22 2811 AND 11

23 0 S112 NOT 13

24 775 S18 AND 111

25 831822 S MICELLE OR LIPID OR LIPOSOME

26 17 S14 AND 115

27 9 DUP REM 16 (4 DUPLICATES REMOVED)

28 825 S11(S)15

29 11928 S12 OR 15

30 477 S115(S)19

31 280 DUP REM 120 (17 DUPLICATES REMOVED)

32 2737 S LARGE DNA

33 0 S121 AND 122

34 184 S121 NOT PY +1999

35 23471 S LACS OR CELL SORT?

36 2 S11 AND 125

37 2 DUP REM 126 (0 DUPLICATES REMOVED)

38 1447377 S VAC? OR MAC?

39 9621 S ARTIFICIAL CHROMOSOME

40 17 S125 AND 129

41 12 DUP REM 130 (5 DUPLICATES REMOVED)

42 131727 S11 FLOW CYTOMTR?

43 46 S129 AND 132

44 29 DUP REM 133 (17 DUPLICATES REMOVED)

45 28 S134 NOT 131

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FULL ESTIMATED COST			315.69	315.90

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FILE 'BIOSIS' ENTERED AT 16:18:07 ON 02 OCT 2002
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TOTAL ESTIMATED COST 315.90 315.90

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SINCE FILE - TOTAL

ENTRY SESSION

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FILE 'MEDLINE BIOSIS, CAPUS' ENTERED AT 15:05:47 ON 02 OCT 2002

11 482 S MICROCELL MEDIATED CHROMOSOME TRANSFER

12 11852 S ELECTROPORAT?

13 2 S LI AND L2

14 2 DUP REM 13 (0 DUPLICATES REMOVED)

15 173 S ELECTROTRANSFECT?

16 26 S TRANSECT AND ELECTRIC?

17 2095 S TRANSECT? AND PULSE

18 552069 S CHROMOSOME

19 41 S L7 AND L8

20 23 DUP REM 19 (18 DUPLICATES REMOVED)

21 13745 S L2 OR L5 OR L7

22 2 S L11 AND L1

23 0 S L12 NOT L3

24 775 S L8 AND L11

25 831822 S MICELLE OR LIPID OR LIPOSOME

26 13 S L14 AND L15

27 9 DUP REM 116 (4 DUPLICATES REMOVED)

28 825 S L11 S L15

29 11928 S L2 OR L5

30 477 S L15 S L19

31 280 DUP REM 120 (19 DUPLICATES REMOVED)

32 2777 S LARGE DNA

33 0 S L21 AND L22

34 184 S L2 - NOT PY -1999

35 23471 S FACS OR CELL SORT?

36 2 S L11 AND L25

37 2 DUP REM 126 (0 DUPLICATES REMOVED)

38 144277 S YAC? OR MAC?

39 9621 S ARTIFICIAL CHROMOSOME

40 17 S L25 AND L29

41 12 DUP REM 130 (5 DUPLICATES REMOVED)

42 131727 S FOLLOW CYTOMETER?

43 46 S L29 AND L32

44 29 DUP REM 133 (17 DUPLICATES REMOVED)

45 28 S L34 NOT L31

FILE 'MEDLINE BIOSIS, CAPUS' ENTERED AT 16:18:15 ON 02 OCT 2002

-S CHROMOSOME PAINT

136 -S CHROMOSOME PAINT

-S FISH AND CHROMOSOME

137 -21919 FISH AND CHROMOSOME

-S FLUORESC?

138 -81011 FLUORESC?

-S L37 AND L38

139 -1638 L37 AND L38

-S L36 OR L39

140 -16551 L36 OR L39

-S L32 OR L25

141 -149247 L32 OR L25

-S L40 AND L41

142 -580 L40 AND L41

-D 142 1-10

142 ANSWER 1 OF 580 - MEDLINE

AN 2002442803 - MEDLINE

DN 22188894 PubMed ID: 12200682

TI Infant acute lymphoblastic leukemia - combined cytogenetic,

immunophenotypic and molecular analysis of 77 cases.

AU Borkhardt A; Wuchter C; Viehmann S; Pils S; Teigler-Schlegel A; Stanulla M; Zimmermann M; Ludwig W-D; Janka-Schaub G; Schrappe M; Harbott J

CS Children's University Hospital, Department of Hematology and Oncology, Gessen, Germany.

SO LEUKEMIA, (2002 Sep) 16 (9) 1685-90.

Journal code 8704895 ISSN: 0887-6924

CY England; United Kingdom

DT CLINICAL TRIAL

Journal: Article; (JOURNAL ARTICLE)

(MULTICENTER STUDY)

LA English

ES Priority Journals

FM 200209

ED Entered STN: 20020830

Last Updated on STN: 20020927

Entered Medline: 20020926

142 ANSWER 2 OF 580 - MEDLINE

AN 2002430654 - IN-PROCESS

DN 22175179 PubMed ID: 12187044

TI Chromosomal aberrations in transitional cell carcinoma: its correlation

with tumor behavior.

AU Yu D-S; Chen H-I; Chang S-Y

CS Uro-Oncology Laboratory, Division of Urology, Department of Surgery, Tri-Service General Hospital, National Defense Medical Center,

National Defense College, Taipei, Taiwan ROC.

SO UROLOGIA INTERNATIONALIS, (2002) 69 (2) 129-35.

Journal code 0417373 ISSN: 0042-1138

CY Switzerland

DT Journal; Article; (JOURNAL ARTICLE)

LA English

ES IN-PROCESS NONINDEXED; Priority Journals

ED Entered STN: 20020821

Last Updated on STN: 20020821

142 ANSWER 3 OF 580 - MEDLINE

AN 2002378813 - IN-PROCESS

DN 22120540 PubMed ID: 12124698

TI Fetal gender and aneuploidy detection using fetal cells in maternal blood:

analysis of NIFTY data.

AU: Branch D W; Simpson J L; Jackson T G; Elias S; Holzgreve W; Evans M L
 Duke E A; Sullivan E M; Klinger K W; Bischoff F Z; Hahn S; Johnson K L
 Levy D; Wagner R J; Cruz Ed I de la
 CS: Division of Genetics, Departments of Pediatrics, Obstetrics and Gynecology, Tufts University School of Medicine, Boston, MA, USA
 SO: PREGNATAL DIAGNOSIS, (2002 Jul) 22 (7) 609-12
 Journal code: 8706520 ISSN: 0197-1881
 CY: England; United Kingdom
 DT: Journal; Article; (JOURNAL ARTICLE)
 LA: English
 FS: Priority Journals
 PR: PROJECTS; NONPUBLISHED; Priority Journals
 ED: Entered STN: 20020719
 Last Updated on STN: 20020719
 Entered Medline: 20020719

142 ANSWER 4 OF 580 - MEDLINE
 AN: 2002366465 - MEDLINE
 DN: 22105847 PubMed ID: 12110498
 TI: Lack of interstitial chromosome 1p deletions in clinically-detected neurofibromatosis
 AU: Godfrid M B; Veenendaal M; Vaerdt A; Sluis P v; Voute P A; Versteeg R;
 Catton H N
 CS: Department of Human Genetics, Academic Medical Center, University of Amsterdam, PO Box 22700, 1100 DE, Amsterdam, The Netherlands
 SO: EUROPEAN JOURNAL OF CANCER, (2002 Jul) 38 (11) 1513-9
 Journal code: 0905273 ISSN: 0959-8049
 CY: England; United Kingdom
 DT: Journal; Article; (JOURNAL ARTICLE)
 LA: English
 FS: Priority Journals
 EM: 200209
 ED: Entered STN: 20020712
 Last Updated on STN: 20020914
 Entered Medline: 20020913

142 ANSWER 5 OF 580 - MEDLINE
 AN: 2002269316 - MEDLINE
 DN: 21940237 PubMed ID: 11943340
 TI: Cytogenetic characterization of complex karyotypes in seven established melanoma cell lines by multiple fluorescence in situ hybridization and DAPI banding.
 AU: Schulten Hans-Jürgen; Ganawan Bastian; Otto Friedrich Hassmann René;
 Hallemann Christian; Noebel Albrecht; Fazesi László
 CS: Department of Pathology, Georg-August University, Göttingen, Germany
 SO: CANCER GENETICS AND CYTOGENETICS, (2002 Mar) 133 (2) 134-41.
 Journal code: 7009240 ISSN: 0165-4608.
 CY: United States
 DT: Journal; Article; (JOURNAL ARTICLE)
 LA: English
 FS: Priority Journals
 EM: 200205
 ED: Entered STN: 20020412
 Last Updated on STN: 20020503
 Entered Medline: 20020502

142 ANSWER 6 OF 580 - MEDLINE
 AN: 2002199521 - MEDLINE
 DN: 21929627 PubMed ID: 11933265
 TI: Quantitative FISH analysis on interphase nuclei may improve diagnosis of DNA diploid breast cancers
 AU: Truong Khuong, Vieth Philippe; Guilly Marie-Véole; Klijamenko Jerzy;
 Sastry-Giraud Xavier; Soussaline Françoise; Dutrillaux Bernard; Mallo
 Bernard
 CS: Cytogenétique moléculaire et Oncologie, Unité Mixte de Recherche

142, Centre National de Recherche Scientifique-Institut Curie, Paris, France
 Khuong truong@curie.fr
 SO: DIAGNOSTIC CYTOPATHOLOGY, (2002 Apr) 26 (4) 213-6
 Journal code: 8506895 ISSN: 8755-1039
 CY: United States
 DT: Journal; Article; (JOURNAL ARTICLE)
 LA: English
 FS: Priority Journals
 EM: 200207
 ED: Entered STN: 20020405
 Last Updated on STN: 20020703
 Entered Medline: 20020702

142 ANSWER 7 OF 580 - MEDLINE
 AN: 2002159582 - MEDLINE
 DN: 21888357 PubMed ID: 11890998
 TI: Interphase fluorescence in situ hybridization and DNA flow cytometry analysis of medulloblastomas with a normal karyotype.
 AU: Rajcan-Separovic Evica; Hendson Glenda; Tang Steven; Seto Emily; Thomson Toni; Phillips Don; Kalousek Dagmar
 CS: Department of Pathology, British Columbia's Children's Hospital, 4480 Oak Street, V6H 3V4, BC, Vancouver, Canada; e separovic@cw.bc.ca
 SO: CANCER GENETICS AND CYTOGENETICS, (2002 Feb) 133 (1) 94-7.
 Journal code: 7009240 ISSN: 0165-4608.
 CY: United States
 DT: Journal; Article; (JOURNAL ARTICLE)
 LA: English
 FS: Priority Journals
 EM: 200203
 ED: Entered STN: 20020314
 Last Updated on STN: 20020403
 Entered Medline: 20020327

142 ANSWER 8 OF 580 - MEDLINE
 AN: 2002120528 - MEDLINE
 DN: 21671061 PubMed ID: 11813198
 TI: Telomere length measurement by fluorescence in situ hybridization and flow cytometry: tips and pitfalls.
 AU: Baerlocher Gabriela M; Mak Jennifer; Tien Teri; Lansdorp Peter M
 CS: Terry Fox Laboratory, British Columbia Cancer Agency, Vancouver, British Columbia, Canada
 NC: AI29524 (NIADDK)
 SO: CYTOOMETRY, (2002 Feb 1) 47 (2) 89-99.
 Journal code: 8102328 ISSN: 0196-4763
 CY: United States
 DT: Journal; Article; (JOURNAL ARTICLE)
 LA: English
 FS: Priority Journals
 EM: 200204
 ED: Entered STN: 20020222
 Last Updated on STN: 20020406
 Entered Medline: 20020405

142 ANSWER 9 OF 580 - MEDLINE
 AN: 2002036247 - MEDLINE
 DN: 21598123 PubMed ID: 11767759
 TI: Evaluation of three somatic genetic biomarkers as indicators of low-dose radiation effects in clean-up workers of the Chernobyl nuclear reactor accident.
 AU: Jones FM; Tucker JD; Langlois R G; Mendelsohn M I; Pleshkov P; Nelson D
 O
 CS: Biology and Biotechnology Research Program, L-441 Lawrence Livermore National Laboratory, Livermore, California, USA; jones20@lbl.gov

NC 1001 CAS9421 NCB

SO Radat Prot Dosimetry, (2001) 97 (1) 61-7
Journal code: 810995 ISSN: 0144-8420

CY England; United Kingdom

DE (EVALUATION STUDIES)
Journal; Article; JOURNAL ARTICLE

LA English

ES Priority Journals

EM 200204

ED Entered STN: 20020624

Last Updated on STN: 20020424

Entered Medline: 20020423

142 ANSWER TO Q1 OF 3 MEDLINE

AN 2002035938 MEDLINE

DN 21604146 Pubmed ID: 11763711

11 Use of novel t(11;14) and t(14;18) dual fusion fluorescence in situ hybridization probes in the differential diagnosis of lymphomas of small lymphocytes.

AU Frater JL; Tsirivatis EK; Hsi FD; Pettay J; Lubbs RR
CS Department of Clinical Pathology, Cleveland Clinic Foundation, Ohio 44195, USA

SO DIAGNOSTIC MOLECULAR PATHOLOGY, (2001 Dec) 10 (4) 214-22.
Journal code: 9204924 ISSN: 1052-9551

CY United States

DE (EVALUATION STUDIES)
Journal; Article; JOURNAL ARTICLE

LA English

ES Priority Journals

EM 200205

ED Entered STN: 20020624

Last Updated on STN: 20020507

Entered Medline: 20020502

> D HIS

(FILE 'HOME' ENTERED AT 15:05:39 ON 02 OCT 2002)

FILE 'MEDLINE_BIOSIS_CAEPLUS' ENTERED AT 15:05:47 ON 02 OCT 2002

11 482 S MICROCELL-MEDIATED CHROMOSOME TRANSFER

12 11852 S ELECTROPORATE?

13 2 S 11 AND 12

14 2 DUP REM 13 (0 DUPLICATES REMOVED)

15 173 S ELECTROTRANSFECT?

16 26 S TRANSFECT AND ELECTRIC?

17 2095 S TRANSFECT? AND PULSE

18 552069 S CHROMOSOME

19 41 S 17 AND 18

110 23 DUP REM 19 (18 DUPLICATES REMOVED)

111 13745 S 12 OR 15 OR 17

112 2 S 11 AND 13

113 0 S 112 AND 13

114 775 S 18 AND 11

115 83182 S MICROCELL OR LIPID OR LIPOSOME

116 13 S 14 AND 15

117 9 DUP REM 14 (64 DUPLICATES REMOVED)

118 825 S 11 (S) 15

119 11928 S 12 OR 15

120 477 S 15 (S) 19

121 280 DUP REM 120 (397 DUPLICATES REMOVED)

122 2737 S LARGE DNA

123 0 S 121 AND 122

124 184 S 12 (NOT PY) 1999

125 2347 S FEAS OR CELL SORT?

126 2 S 11 AND 12?

127 2 DUP REM 126 (0 DUPLICATES REMOVED)

128 1447377 S MACR OR MAC?

129 9621 S ARTIFICIAL CHROMOSOME

130 17 S 125 AND 129

131 12 DUP REM 126 (0 DUPLICATES REMOVED)

132 13127 S FLOW CYTOMETER?

133 46 S 129 AND 132

134 29 DUP REM 133 (17 DUPLICATES REMOVED)

135 28 S 134 NOT 131

FILE 'MEDLINE_BIOSIS_CAEPLUS' ENTERED AT 16:18:15 ON

02 OCT 2002

136 312 S CHROMOSOME PAINT

137 21919 S FLUOR AND CHROMOSOME

138 81101 S FLUORESC?

139 16787 S 127 AND 138

140 16551 S 136 OR 139

141 49247 S 132 OR 125

142 580 S 140 AND 141

> S TRANSFER OR TRANSECT?

143 1196774 TRANSFER OR TRANSECT?

> S 142 AND 143

144 3142 AND 143

> DUP REM 144

PROCESSING COMPLETED FOR 144

145 5 DUP REM 144 (0 DUPLICATES REMOVED)

> D 110 S 1-3

145 ANSWER 1 OF 3 MEDLINE

11 Molecular cloning and immunogenicity of renal cell carcinoma-associated antigen G250.

SO INTERNATIONAL JOURNAL OF CANCER, (2000 Mar 15) 85 (6) 865-70

Journal code: 0042124, ISSN: 0020-7136.

145 ANSWER 2 OF 3 MEDLINE

11 Generation of transgenic mice and germline transmission of a mammalian artificial chromosome introduced into embryos by pronuclear microinjection

SO CHROMOSOME RESEARCH, (2000) 8 (3) 183-91.

Journal code: 9213452, ISSN: 0967-3849.

145 ANSWER 3 OF 3 MEDLINE

11 Dendritic cells generated from blood precursors of chronic myelogenous leukemia patients carry the Philadelphia translocation and can induce a CML-specific primary cytotoxic T-cell response.

SO GENES, CHROMOSOMES AND CANCER, (1997 Nov) 20 (3) 215-23.

Journal code: 9007129, ISSN: 1045-2257.

> D HIS

(FILE 'HOME' ENTERED AT 15:05:39 ON 02 OCT 2002)

FILE 'MEDLINE_BIOSIS_CAEPLUS' ENTERED AT 15:05:47 ON 02 OCT 2002

11 482 S MICROCELL-MEDIATED CHROMOSOME TRANSFER

12 11852 S ELECTROPORATE?

13 2 S 11 AND 12

14 2 DUP REM 13 (0 DUPLICATES REMOVED)

15 173 S ELECTROTRANSFECT?

16 26 S TRANSFECT AND ELECTRIC?

17 2095 S TRANSFECT? AND PULSE

18 552069 S CHROMOSOME

19 41 S 17 AND 18

110 23 DUP REM 19 (18 DUPLICATES REMOVED)

111 13745 S 12 OR 15 OR 17

112 2 S 111 AND 11
113 6 S 112 NOT 11
114 775 S 118 AND 11
115 834822 S MC 111 OR LIPID OR LIPOSOME
116 12 S 114 AND 115
117 9 DUP REM 116 (4 DUPLICATES REMOVED)
118 825 S 1118 115
119 11928 S 112 OPT 5
120 477 S 115 S 119
121 280 DUP REM 119 (197 DUPLICATES REMOVED)
122 2737 S 1149 G DNA
123 6 S 121 AND 122
124 184 S 121 NOT PY 1999
125 2357 S 123S OR CELL SORC?
126 2 S 111 AND 125
127 2 DUP REM 126 (0 DUPLICATES REMOVED)
128 1447577 S YAC2 OR MAC2
129 9621 S ARTIFICIAL CHROMOSOMI
130 17 S 125 AND 129
131 12 DUP REM 130 (5 DUPLICATES REMOVED)
132 131727 S 1149 W CYTOMIIR?
133 46 S 129 AND 132
134 29 DUP REM 133 (17 DUPLICATES REMOVED)
135 28 S 134 NOT 131

THE MEDLINE, BIOSIS, CAPLUS ENTERED AT 16:18:15 ON

02 OCT 2002

136 372 S CHROMOSOME PAINT
137 21919 S HSIL AND CHROMOSOME
138 811011 S FLUORESC?
139 16387 S 117 AND 138
140 16551 S 116 OR 139
141 149247 S 132 OR 125
142 580 S 140 AND 141
143 1196774 S TRANSFER OR TRANSFECT?
144 3 S 142 AND 143
145 3 DUP REM 144 (0 DUPLICATES REMOVED)

-- LOG HOLD
COST IN U.S. DOLLARS SINCE FILE TOTAL
ENTRY SESSION 18.62 334.52
FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)
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OCT 2002